

From The STAFF

W.T.F.D.A. Headquarters, P.O. Box 514, Buffalo, NY 14205

IT'S ALMOST CONVENTION TIME!...In just a few days, the 1984 W.T.F.D.A. Convention will take place. Those of you new to W.T.F.D.A. are welcome --it's a great chance for you to meet your fellow VHF/UHF DXing enthusiasts, and exchange ideas and tips, and maybe even get a look at some QSL and photo collections, DX equipment, and so forth, with the real possibility of having a chance at some great FM and TV DX while you're there. This year's outing is at Jamestown, NY, on a great DX hill about 50 miles south of Buffalo--easily reached via Interstate 90 (take Exit 59 of the NY Thruway, and NY Route 60 into Jamestown). The event takes place August 3rd, 4th, and 5th. Further info can be obtained from your host, Mike Lapinski, at (716)665-6581. Hurry--some last minute accommodations may still be available.

CENTRAL FM-DX...Editor Ralph Strobel has called it quite after a long tenure as a VUD FM DX column editor. Starting in April 1979, Ralph took on the NORTHERN FM-DX section. He has done a consistently superb job for the VUD, and deserves our thanks. FM DX reporters in Minnesota, Iowa, Missouri, Wisconsin, Illinois, Indiana, Ohio, and Michigan are now asked to send their reports to NORTHERN FM-DX editor Saul Chernos, 79 Ridge Drive, Toronto, Ontario M4T 1B6, CANADA.

A REMINDER TO ALL VUD COLUMN EDITORS...The 15th of the month is still the deadline for getting your columns to Akron. Please make sure your copy gets in the mail in time to reach your Editor-in-Chief by deadline. The VUD can not be held up for just one column. Remember, you are reporting news to the W.T.F.D.A. membership, and you are part of a team that has the common objective of getting the VUD into the hands of the membership as quickly as possible. Your fine work is always appreciated. In fact, HQ receives many compliments on the VUD, but this is really the result of many fine editors' work. Thanks, to all of you. This is really your magazine, not just the work of one or two people.

NEW TUNER FOR TV DXING?...Teknika has a new TV tuner/converter on the market that just may outperform most all commercially available TVs on the UHF channels. The converter was on view at recent electronics trade shows, and will be in use at this year's W.T.F.D.A. convention. Watch for a VUD report coming up!

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On the Cover: KPSI-FM 100.9 coverage map from Dr. Bruce Elving.

ANTENNA NEWS

Doug Dornbos
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Hudsonville, MI 49426

August 1984

Dear Fellow DX'ers,

For those not familiar with the electronics business an explanation of what the CES is in order. The consumer electronics industry has 2 annual trade shows where many manufacturers show their wares to retailers and distributors who come to shop for products to resell. These shows are called the Summer and Winter Consumer Electronics Shows, SCES or WCES, or just plain CES, for short. For the past several years the Summer show has been held in Chicago, the Winter show in Las Vegas. The following is a brief look at a few of the DX related items I looked at in Chicago this past weekend-June 3 & 4. This is by no means what I think was the most important stuff there, it's just what I happened to see. Although I spent one whole day looking at TVRO, I don't believe that it has a place on these pages at the present time.

One product I have wanted to see for quite some time is the WinnTenna automobile TV antenna. These jobs mount on a roof or trunk, stick up about 6" above the surface, and look like a wing with about an 18" span. I was very disappointed both in the seemingly cheap construction and in the lack of any technical specifications. Two items offered however might be of interest to some of you; a Uhf-Vhf-fm and a Uhf-Vhf-am-fm automobile preamps offering 12-15 db gain.

My annual trip to the Grundig display proved to reassure me that some people still are concerned with quality. Although these products are not real inexpensive, they make for a very nice selection of portable am-fm-sw radios along with a line of more mass-appealing "ghetto-blasters". If you are looking for a portable to get it all, these little German beauties are worth a look.

The only other general coverage receiver I looked at was the Bearcat DX1000. This unit is very eye-appealing and is the scanner company's only product of this type. Every kind of button known to man is on this thing. If you want portability though, this is not the receiver to own. Although it sports a carrying handle there are no provisions for internal batteries. Weight is 17 lbs. As a point of interest, Bearcat was recently bought out by Uniden (from Elektra). Elektra's name will continue on the Freedom Phone. Dennesen was showing their Polaris indoor fm antenna which is still in my opinion the best product in this category on the market. Richard Kaufman the design engineer was not there and since he is a very interesting man to talk to I was somewhat disappointed. The Dennesen Polaris I am told will be reviewed in the August or September Audio magazine.

My next DX oriented stop was the Magnum display. President Manfred Breunig was manning the display and as in past years was a very polite host. New this year is a 750hm version of the Sleuth indoor amplifier. Although this unit has to be indoors and not up at the top of the antenna tower, it is very nice in the fact that it offers a tuning dial on the front giving the user added selectivity which is often needed in the crowded fm band. As a point of interest, Magnum prints a breakdown of who buys their product; 12% are McIntosh owners (topping the list), 10% Pioneer owners, 7% Carver owners, 4% Sony owners, 3% NAD, 3% Marantz, and 1% Sequerra owners. I picked out these brands from the list of 34 because of the interest shown in their products by the DX community. Besides the FM Sleuth, Mr. Breunig has also designed a complete FM tuner chassis which he hopes to sell to receiver manufacturers who do not have their own RF engineering departments and who wish to buy a product manufactured somewhere other than the far east. I was very impressed with the performance and versatility of this unit. It has provisions for a center tune meter, signal strength meter, and multipath meter. Oh that more marketing departments would dictate this last feature on their products rather than flashing lights and nonuseful handles on the face. I can only hope that someone will buy this unit and offer it to hobbyists who wish to "build" a tuner of their own. I forgot to ask if this was a possibility. This brings me to the DX'ing highlight of the show - the Sequerra 1 FM tuner. Before discussing the equipment I must say that the Sequerra people impressed me VERY much in their hospitality and graciousness in the midst of a hectic business environment. My hat goes off to them for that.

CES (cont.)

Talking about taking things off, the Sequerra tuner will knock your socks off! (in modern vernacular). This is with no doubt the finest fm tuner I have ever had the pleasure of beholding and I don't doubt, in the world. Not only are the RF sections of this tuner of extraordinary quality, the tuner also encompasses an oscilloscope with spectrum analysis, stereo separation, multipath, and center tune functions among others. I am sure that after using a piece of equipment of this caliber, one would never be satisfied with the usual 2 meters again. I mean, knowing what you know now, would you ever go back to using an outdoor toilet again? This unit is so extensive, I cannot attempt going into detail here and quite honestly, without using the Model 1 for a length of time, I doubt one could even begin to realize its' full potential. If you would like more information on this \$5000.00 wonder, write: The Sequerra Company, 3000 Druid Park Dr., Baltimore, MD 21215. Say you read about it in the VUD. For a bit of nostalgia, this year's show had a display of "antique" tv's - my how things have changed. In this display I picked up an interesting piece of paper depicting the growth of tv in this country starting in 1946 continuing to present. Looking at only the last half of this time period (back to 65) we see that 93% of homes had a tv in 65, 98% now. 5.3% had color in 65, 89% do now. What will happen in the next 18 years? So much for this year's summer show. I don't go to Vegas typically due to the distance (\$). I hope that you folks don't mind this momentary departure from a "strictly antenna oriented" column. It won't happen too often.

MEMBER'S INPUT

Thanks to all who bought some of the antenna supplies last month. There's still stuff left if you want it and haven't ordered yet. Thanks too for the kind words some of you wrote in with your orders. I appreciate it. In answer to some questions: I do not know of a source for Finco (Sonim). If someone out there has access to it please write and I'll print it. In future columns I'll print addresses for various manufacturers. The Winegard 20/20 series of indoor antennas will definitely outperform rabbit ears. Nate Ely reports that his purchase of the Channel Master 7206 tuneable trap has been a very worthwhile investment as far as getting rid of his interference problems. Tuning the trap without a field-strength meter has been no problem as I had thought it might be. Nate highly recommends this product. John Sulak sent me an article clipped from the May 14 issue of Electronic Engineering Times highlighting a new type antenna developed by Snyder Antenna of Costa Mesa, CA. This design uses a newly styled element allowing it to be resonant over a very broad range of frequencies. It looks very promising to me. It will be interesting to see what impact it has on the market. Thanks John.

MAGAZINE ARTICLES * THE LAST 2

11 Outdoor FM Antennas Analyzed	Audio	Jan 83
How to Make an FM Antenna	Blair & Ketchum's Country Journal	" "
Installing & Repairing TV Antennas	Mechanics Illustrated	Aug "84
Switcher Salvation	High Fidelity	Apr 84
Rooftop Rx for TV Ills	" "	Oct 83

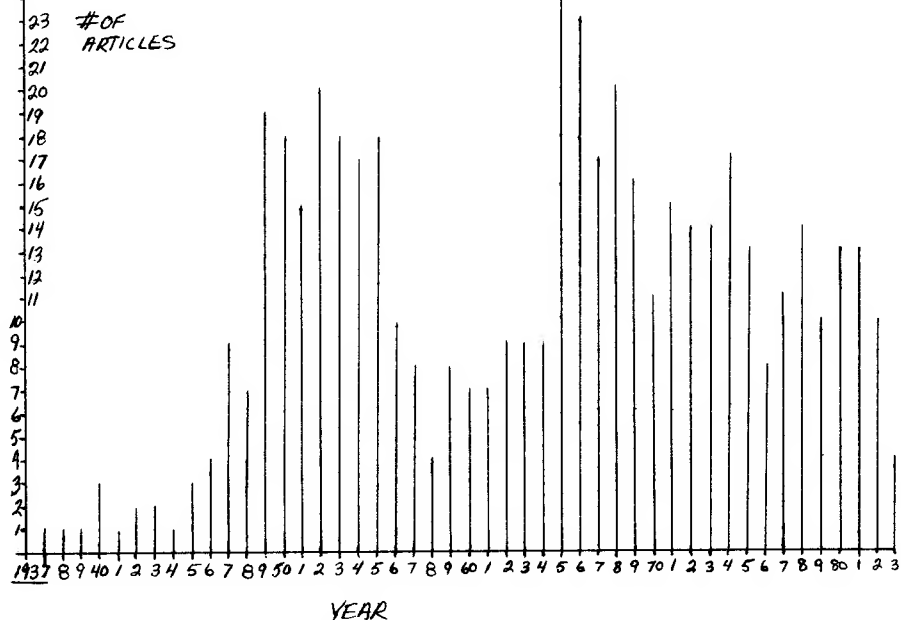
Addendum for past time periods

A \$10 FM Yagi	Audio Amateur	1977 series
Choosing & Installing an FM Antenna	" "	1980 "
Adding a Tower for FM	" "	1981 "

SOME CONCLUSIONS FROM THE MAGAZINE ARTICLE LISTINGS

Subtracting articles dealing with interference of a general nature, amateur radio antennas, and anything else not directly related to TV-FM antennas, I have arrived at some counts for years back to 1935. This should give you a rough idea at how popular a subject this is to the American public.

Conclusions (cont.)



Although not totally accurate, the above graph shows that the average American thirst for antenna knowledge grew rapidly in the 1940's (after WWII) right along with the growth of B&W tv. After a decline in the late 1950's and early 1960's, the effect of color tv shows itself with a big surge in articles which has yet to be matched. One would think that with all the current popularity of video, that antennas would once again be enjoying alot of popularity but such is not the case. Maybe stereo tv will kick it off again...or maybe TVRO really will replace the old stand-by.

THIS COLUMN

This month represents a transition month for the Antenna News column. Since the second month it was published (June 83) the column has retained its' basic format: A little essay, Magazine articles from 1935 to current, Members input, Theory and practice, and a little current news. For those who have recently joined the club, the theory & practice sections have progressed from mounting to items closest to the receiver back up towards the antenna. Specifically: Antenna mounts (general) June 83, Tripods (July 83), Mast pipe (August 83), Tower (Sept. 83), Rotors (Nov.83), Transmission Line: Balanced/Unbalanced (Dec. 83), Impedance (Jan.84), Baluns/Traps (Feb.84), Product Comparison (Mar.84). Leaving transmission line we go to traps & filters (Apr.84), and lately we've hit preamplifiers pretty hard talking about noise figure (May 84) and bandpass (June 84), wrapping up with input and output configurations in July. Now that we have completed bringing the magazine articles to date and also have discussed antenna systems up to the antenna, this column will start to look at antenna systems in reasonable depth. Starting next month I will hit automobile antennas for a few months and then proceed to home units. If you think that I'm heading off in the wrong direction let me know.

BASIC THEORY: THE DECIBEL (I LIED LAST MONTH!)

Last month I promised that there would be no theory this month, I lied. After thinking about it for awhile I thought that this would be a good place to inject a brief description of the decibel for those who are not quite sure that they understand what it is and are to embarrassed to tell anyone.

The first and probably most important thing to remember is that a db is not a finite unit of measurement such as an inch is or a quart is. It is a unit of measurement much like the per cent is, always dependant upon a reference number. The problem with numbers like percents is that if we do not know what the reference number is, the per cent number can be very misleading. For example, I recently sold a dealer a Channel Master satellite earth station. It was the first one he had bought. After purchasing the system, the dealer had some disagreements with our company and will not purchase Channel Master any longer. Add to this the fact that the receiver on the one system he bought from me was defective. Because he once carried Channel Master but now is selling against it, he tells his customers that the reason he doesn't carry it is because when he did carry it, 100% of the receivers that he got were defective. The problem with per cents is of course that one must know the reference number in order to know how much the per cent is worth.

Enter the decibel! As I said before, the db is alot like the per cent, in fact that's exactly what it is. When talking about TV reception antenna systems, a 6db increase is a doubling of signal. A 6db decrease is a halving of signal. A 12db increase is a quadrupling of signal and a 12db decrease is a quartering of signal. And on we go. If you are puzzling to yourself thinking that you recall seeing somewhere that a 3db gain is equal to doubling your signal, remember that I said we are referring to TV reception antenna systems. I chose my words carefully for a change! A 3db gain is a doubling of signal if the reference number is in watts. If it is given in volts however, as TV antenna receiving systems figures always are, then the 6db mark is where the doubling takes place. One must be careful when tossing these db's around especially when talking about transmitting and receiving antennas in the same breath since transmitting antennas are always referenced to a wattage and receiving antennas to a voltage. So what voltage is it referenced to? you might ask. Antenna gain measurements are always referred to a basic antenna, usually a dipole. For instance if we cut a dipole for 7 and then make a measurement of how many volts of signal we receive with it at a specific location, and then we put a channel 7 yagi up and find that it has received 4 times as much signal voltage as the cut dipole did, we say that the yagi has 12db of gain with reference to a standard dipole. If the gain specification does not tell what it is being referenced to, it is meaningless.

Amplifier gain is very easy to understand since the reference voltage is the voltage coming in. Therefore if an amplifier is specified as having 18db of gain, you know that it amplifies signal by 8 times. Gain in a MATV system is a little different in that an arbitrary voltage is chosen and called zero db with everything under this point being a negative and everything higher being a positive. Note that the negative number does not mean negative signal. The point usually chosen for zero db is 1 millivolt (1000 microvolts), this being the accepted point at which TV tuners are operating at close to maximum.

I will leave you with a formula for finding the voltage gain from db gain and vice versa. Also for non-math types, here is a table showing a few values. Number of decibels = $20 \log_{10} (E_2/E_1)$ where: E_2 = the output voltage, E_1 = the input or reference voltage.

db	times	db	times
6	2X	28	25X
12	4X	31	35X
14	5X	32	40X
17	7X	33	45X
18	8X	34	50X
19	9X	38	80X
20	10X	40	100X
26	20X	50	300X
		60	1000X

Note: If you are working with traps and filters, these numbers become recipricals for the voltage gain and negative numbers for the db. example; if you have a trap that gives 60db of attenuation (-60db with respect to the input voltage), then your output is 1/1000 of the input. Please excuse the "jumpiness" of this month's column as I wrote it in several sittings. See you next month. Thanks for reading. Day

TELEVISION NEWS

Bill Fahber, editor
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Bridgeport, NJ, 08302

APPLICATIONS FOR NEW TELEVISION STATIONS

CH ERP HAAT STATE/CITY/APPLICANT

61 5000 2000 AL Mobile; Mobile TV 61, Inc.

6 100 156 AZ Kingman; Contemporary Communications, Inc.

38 21.8 -409 CA Santa Barbara; Wilshire District Broadcasting Company Inc

21 2286 973 FL Fort Pierce; Florida Educational Television Inc.

52 5000 963 GA Albany; Albany Broadcasters

42 3013 954 IN Bloomington; Area Christian Television, Inc.

42 5000 545 IN Bloomington; Haynes Communications Company

14 1708 480 KS Pittsburg; Family Broadcasting Company

49 2130 1185 KY Paducah; Amos Communications

49 2500 496 KY Paducah; TV-49

65 1000 1500 MD Cumberland; Gary D. Terrell

17 1488 931 NE Grand Island; Family Broadcasting Company Inc.

17 1636 791 SD Sioux Falls; Family Broadcasting Company, Inc.

53 5000 957 TN Cleveland; Cleveland Television Ltd.

53 5000 340 TN Cleveland; Philip B. George

33 720 305 TN McMinnville; Warren County Broadcasters

58 5000 1497 TN Nashville; Dove Broadcasting Company

54 5000 405 TX Austin; Capital City Community Interests, Inc.

CONSTRUCTION PERMITS GRANTED FOR NEW STATIONS

26 5000 1983 FL Daytona Beach; Life Style Broadcasting, Inc. (Review Board decision)

34 4182 1035 GA Athens; Sunbelt Television, Inc. (Initial decision)

46 5000 1068 IL East St. Louis; Minority Broadcasters of East St. Louis, Inc. (Review Board Dec'n)

62 2760 489 IN Hammond; Pan American Broadcasting Co. (Initial dec'n)

29 1250 430 IN Kokomo; B.G.S. Broadcasting Inc. (Summary decision)

13 309 332 MT Lewiston; Arapahoe Silent Majority Inc.

62 1995 880 NC Asheville; Local Majority TV

53 63 328 OH Chillicothe; Triplett & Associates

24 5000 1610 SC Charleston; Charleston Community Television Ltd.

APPLICATIONS DISMISSED

FL Daytona Beach; ch. 26; Daytona Beach Television Associates Ltd.; Daytona Broadcasting Company Inc. (Review Board Decision)

GA Athens; ch. 34; Sunbelt Television, Inc. (Initial Decision)

GA Augusta; ch. 54; Orion Broadcast Group, Inc.; Ro-Mar Communications, Inc.; Augusta Family Television Ltd.

IL East St. Louis; ch. 46; Spectrum Telecommunications Corp. (Review Board Decision)

IN Hammond; ch. 62; Apogee, Inc.; Cross Country Network; Hammond Indiana TV Inc.; Jovon Minority Broadcasting Corp. (Initial dec'n)

NJ Burlington; ch. 48; Angelo Roman

SC Charleston; ch. 24; Charleston Television Partners; Charleston 24 Ltd; South Jersey Radio, Inc.

TX Dallas; ch. 58; El Canal de La Comunidad

CONSTRUCTION PERMIT MODIFICATIONS GRANTED

47 45.6 340 MN Rochester; KXLT

38 97.5 1261 PA Scranton; WSWB

64 158 467 PR Naranjito; WART

FACILITIES CHANGES GRANTED

SC Columbia; WLTX, ch. 19; Granted Construction permit to increase ERP from 1250 kw max/1046 kw hor. to 5000 kw max.; 1749' AAT/1664' AG/2014' ASL (1081' higher ASL); coordinates 34°05'49"/80°45'51"; TL 11 miles northeast of Columbia City Limits (13.86 miles difference, on a bearing of N75°E). Should be greater coverage area and better DX.

PA Erie; WJET-TV, ch. 24; reduce ERP from 2090 kw Max/1150 kw hor to 1120 kw Max (should be slight reduction in signal strength); same TL and antenna height.

NY Syracuse; WGNV-TV, ch. 24; ERP to increase from 347 kw to 2312 kw max.; 1385' AAT/964' AG/2386' ASL. Same TL, but discrepancies are evident in antenna heights, making it impossible to compare.

APPLICATIONS FOR CALL LETTERS: EXISTING STA'S.

CH C.L. STATE/CITY/APPLICANT

6 WLNS-TV MI Lansing; WJTM-TV

15 KSMQ-TV MN Austin; KAVI-TV

CALL LETTERS ASSIGNED: NEW STATIONS

44 WJTC FL Pensacola; Carnex TV Inc.

24 KSAS KS Wichita; Columbia-Kansas TV Ltd.

9 KWBR UT Ogden; KTTY

20 KXWY-TV WY Casper; Channel 20 Casper Inc.

CALL LETTER CHANGES GRANTED

26 WMEA-TV ME Biddeford; WMEG-TV

15 KSMQ-TV MN Austin; KAVI-TV

45 WNRW NC Winston-Salem WJTM-TV (as mentioned in last month's FORUM; more on that this month)

21 WXXI-TV NY Rochester; WXXI

60 KEDV TX Harlingen; KZLN

NEW STATIONS ON THE AIR

IN Evansville; WEVV, ch. 44, went on the air 11/17/1983; 1313.7 kw max/1095 kw hor; 1037' AAT/979' AG/1449' ASL; coordinates 37°53'16"/87°32'42"; TL State Road #414, east of US Route 41, Henderson, IN; address is Family TV, Inc., 629 Walnut Street, Evansville, IN, 47708.

IL Decatur; WFHL, ch. 23, went on the air 5/13/1984; 1666 kw max/575 kw hor; 1033' AAT/1046' AG/1736' ASL; coordinates 39°57'04"/88°52'00"; TL near Highway 47, Oreana, IL; address: Decatur Foursquare Broadcasting, 2510 Parkway Court, Decatur, IL, 62526.

OH Columbus; WTTT-TV, ch. 28, went on the air 6/2/1984; 1916 kw max; 965' AAT/1124' AG/

2044' ASL; coordinates 40°09'33.5"/82°55' 21.5"; TL 6680 State Route #3, Westerville, OH. (David Moody says that transmitter location is 20' west of WOSU-TV, ch. 34, and two miles north of Westerville. Because of antenna problems the station is presently operating with about 1000 kw. Address: Commercial Radio Institute, Inc., 6130 Sunbury Road, Columbus, OH.)

CHANGES IN THE TABLE OF CHANNEL ASSIGNMENTS

NY Kingston: add 62+; delete 63+ (Bill Draeb brought this to my attention. I failed to record this last month along with the changes in Syracuse, NY and Newton, NJ. In order to provide New Jersey with more channels, which the FCC has been trying to do for years, ch. 63 was moved from Kingston to Newton, ch. 62 was moved from Syracuse to Kingston, and 68 replaced 62 in Syracuse.)

OK Grove: add 45+

CONSOLIDATED HEARINGS

CA Monterey; ch. 67 (assigned to Salinas-Monterey); Schuyler-Littlefield Broadcasting Company (proposes station in Monterey); Focus Broadcasting of the Monterey Peninsula (proposes Seaside)

NM Roswell; ch. 8; renewal of license of KSWB-TV (owned by KCBG Associates); application for consent to transfer licenses of KSWB-TV and KCBG-TV from KCBG Associates to Caprock Television Inc.; application for consent to transfer license of KSWB-TV from Caprock to The Stanley S. Hubbard Trust; application for new television station by Western Sun Broadcasting Co.

FORUM

Nate Ely reported WFHL, ch. 23, Decatur, IL, now on the air with religious programming. He and Jeff Kadet both saw KEFB, Monterey, Mexico, now on channel 2. Nate reports WRSP-TV, ch. 55 in Springfield, IL, now operating 24 hours a day. He asks, "Will the Xltr guide include LFTV's?" Yes it will. It will include stations on the air and construction permits. It will list ERP for each. I'm still in the process of typing it, and should be finished by the beginning or middle of August. It may be slow coming, but rest assured, it will be here soon. I probably misunderstood Nate's question about K80AW in Dubuque. I have no indication that the translator is planning to change channels, and as far as I know it's still operating. Nate noticed that the old translator list included W56AB in Darlington, WI, which rebroadcasts WMTV, ch. 15 in Madison. But the chief engineer of WMTV says he never heard of it. Is it off the air? Probably not. Most often, station engineers don't know about translators. The Darlington translator is owned by the City of Darlington, and is probably operated by the City Engineer's office. They would have to get permission from the owners of WMTV, not the station engineer. Nate, as well as Bill Draeb are definite about the translators they reported. Let me make it clear that I don't question their reports, nor do I question the

existence of these translators. The problem is that none of my translator lists, nor the Television Factbook, nor the past several years of Television Digest, mention most of them. A few are mentioned as having been applied for, but there is no record of construction permits having been granted. As it stands, nobody seems to know their call letters, and the connection with Iron Mountain and Escanaba seems to be only word-of-mouth. My translator lists caution that they are "unofficial secondary source: use primary source for official information." Here are the translators in question, and anybody with further information please help us out on this. Ch. 60 is transmitting ESPN, but I have no record of an application for ch. 60. Ch. 57 rebroadcasts WLRE, ch. 26. This one is very possibly the former K56BF, which used to relay WLRE. It had expressed an interest in moving to ch. 57, but I don't have record of such an application. Let alone a construction permit. Ch. 55 rebroadcasts WBAY, but again, no application. Ch. 61 rebroadcasts WJMN, ch. 3, but scrambles the picture! Again, no application. Ch. 63 shows CBN. This is most likely the former W64AR, which shows WYAH, the flagship station for CBN, and which had applied to change to ch. 63. But I have no record of FCC action on that application. This station is scrambled also. Ch. 65 has ON-TV. I wonder if it could be a translator for WSNS-TV, ch. 44 in Chicago, but again, no application on record. Ch. 43 is probably the former W75AE, which translates WLWK, ch. 11. W75AE applied to change to ch. 43, but again no record of FCC action. Ch. 67 shows MTV, and is scrambled. Here again, no application. So what is happening up there is anyone's guess. I wrote to the company that owns the Iron Mountain translators two weeks ago, but haven't received a reply yet.

Nate also reported a new station: KIDY-TV, ch. 6 in San Angelo, TX. Chief Engineer Edward S. Mateo replied to Nate, "We began serving the Concho Valley of West Texas on May 16, 1984 as the area's only independent television station." Address: 405 South Irving, San Angelo, TX, 76903

Speaking of new stations, Bill Draeb saw KLBV, ch. 4 in Colby, Kansas, testing their transmitter in June, and they planned to go on the air July 1 with regular programming. Nate Ely mentioned to Bill Draeb that KOWY, ch. 5 in Lander, Wyoming, is a satellite of KOWY-TV, ch. 14 in Casper, WY.

New member Rich Berg-Andersson replied to my questions on WOR-TV's sincerity as a New Jersey station. "Is WOR-TV sincere about being a New Jersey station? I think so, considering the circumstances. They seem to emphasize the New Jersey angle on 'Tri-State' stories (such as severe weather which hits the Metro area. The other VHF's cover Long Island and Westchester, rarely N.J., on such stories. WOR-TV seems to cover only N.J.)."

"WOR-TV is also loaded with N.J.-oriented programming, such as 'New Jersey Report,' 'New Jersey People,' 'Nine on New Jersey,' and 'Newark and Reality.' Even old Ch. 9

staple "Meet the Mayors" is now N.J.-oriented." My thoughts of detecting favoritism by its treatment of area codes apparently wouldn't work. Rich points out that there are so many area codes within range of the New York City stations that all ads with telephone numbers include area codes.

Rich asks, "...can WOR-TV be regularly received over-the-air in Bridgeton and Southern N.J.? What effect, if any, does WOR-TV have down there? How do the people down there feel about receiving-or not receiving- N.J.'s VHF station?" Rich also brings up the periodic hostilities between northern and southern New Jersey. Actually, nobody in southern New Jersey watches WOR-TV. When I lived in Somerdale, Camden County back in the early sixties, I could get in New York TV stations sometimes, and apparently so could others, because the local pharmacy gave in to selling New York TV Guides under the counter. Right now, most cable companies carry WOR-TV, but most subscribers look at it as another cable extra. I don't think anybody except the politicians care where the stations are located. Philadelphia supplies all the network programs, syndicated shows and movies, which is what people want. New Jersey Network supplies more than enough New Jersey coverage for most people. There isn't really that much news to report in South Jersey, except for Salem Nuclear Plant shutdowns (upwind from Bridgeton!) and Bald Eagles found in Dividing Creek. Most of the hostilities between north and south are because of the neglect of government funded projects in the south, and environmental regulations like the Pinelands, Wetlands, and Farmlands acts, which stifled development in the southern counties. Despite being a New Jersey resident, I object to the efforts of the New Jersey Legislature and the previous governor to force New Jersey coverage on television stations in other states.

I have been running late these last few months typing this column, and haven't been proofreading before sending it in, and this month's column probably won't be any different. But I really blve it had last month! I really should be more careful!

John Combs caught a few, which were compounded with a few coincidental similarities. As reported on page 12 last month, WNHT, ch. 21 in Concord, NH, is on the air, and confirmed by George Mileon on page 15. But John Combs was talking about WHNS, ch. 21 in Asheville, North Carolina, which I mistook for WNHT. They came Tim McVey on page 17. I knew that he meant WHNS, but to make things worse, I mistakenly typed 32 instead of 21.

Frank Aden of Portland, OR, reports that KWHP, ch. 14 in Boise, ID, will be on the air soon from a transmitter location near Star, Idaho, which is about 15 miles west of Boise, on the tower of KKIC (AM). KWHP had originally planned to be on Deer Point, northeast of Boise, where the other stations are, but since the other local communica-

tions transmitters are there, KWHP was chased out. Frank heard rumors that KWHP might be limited to one kilowatt. I suspect that being on channel 14 presents interference to services operating just below 470 MHz. Sounds to me like KWHP will have a hard time, what with three network stations on VHF, and nobody in that area what that second channel dial on their television set is for. (UHF? What's that? I'm gonna have to what? I already got an antenna on my roof. Why should I have another? Why can't it? Well, if I get this new antenna, what will I get to see? Remurs of what?!!! But I never liked the Lucy Show! What? Did you say movies? Three times a day? And game shows? Wow!!! Put one on my roof! But my TV only goes up to channel 13. You mean that dial? Funny, I never noticed that dial before.)

John F. Zeis sent some information as well as a few questions. What is the status of ch. 61 in Wilmington, Delaware. I didn't realize it, but ch. 61 plans to build its transmitter just of Woodstown, New Jersey. I tried to find some information on them. Their offices are or were in Pennsylvania, New Jersey, but I couldn't find any listing in the phone book there or in Wilmington. I checked the transmitter site based on the coordinates of their application. Nothing there but a weed-ridden cow pasture and a few run-down barns. What about WBRE (ch. 28 in Wilkes-Barre, PA), which applied for ch. 60 in Bethlehem, PA? I don't have anything on that. John says the application is still mentioned in the 1984 Television Factbook.

I did get some information about channel 24 in Baltimore. I remember shortly after they got their construction permit, Tom Yingling sent me some information about them: They were still raising money to buy a site for their studios and transmitter. I wrote to them shortly after getting John's letter, and already received a reply. (And a coverage map no less!) They have a new station manager: Ken Buschman, who was station manager of WPTT-TV, ch. 22 in Pittsburgh. He was also a news announcer for WBFF, ch. 45 in Baltimore. WJKT-TV, ch. 24, signed a lease to put their antenna on an existing tower (1073' AAT/900' AG/1405' ASL), and will operate with 1180 kw ERP. The transmitter tower is off Route 40, just west of the Beltway, which will give good coverage to Frederick County MD and York County, PA. Leasing the tower will mean a lower initial cost and an earlier air date. They sold the 84 acre property originally intended to be their studio location. Their new facilities will be on South Dolfield Road, Owings Mills. They applied for a CP modification on 5/22 to cover the changes mentioned above. They hope to be on the air by the end of 1984. It looked as if they were dragging their feet at first, but are now making progress.

John also sent me a list of facilities changes which have already taken place. Unfortunately most have been listed in earlier columns, and won't be repeated, but here are a few that I did not list.

For example, WHNS, ch. 21 in Asheville, NC, which I have tended to confuse with other stations, went back on the air on 4/1/1984, probably with technical figures in their CP, which is: 3349 kw max; 2509' AAT/1609' AG/5049' ASL. WNBC-TV recently made a change to the World Trade Center, but made a later change since then. Now 17.4 kw max. 1690' AAT/1729' AG/1741' ASL.

Another area of interest mentioned by John is in television stations which are currently off the air, and what their plans are. WCAE, ch. 50 in St. John, IN, was sold, and its new owner has a CP for improved facilities. WWAC-TV, ch. 53 in Atlantic City, NJ, went bankrupt, but mentioned a potential sale. (I suspect this is actually a potential change of hands: the bank is apparently foreclosing on its properties.) WAXA, ch. 40 in Anderson, SC, plans to resume this summer with a stronger signal. KZLN, ch. 66 in Harlingen, TX, went dark last August with no apparent plans to go back on.

To backtrack on a few of the earlier comments, Bill Draeb had questions about a ch. *34 in El Dorado, AR. There is already a ch. 34 assignment in Texarkana, TX, which is too close to El Dorado. I questioned it also. Television Digest reported it, but never mentioned The assignment of 43- to El Dorado the same month. The Federal Register mentioned 43-, but never mentioned *34-. Probably Television Digest was mistaken. Frank Aden mentioned that KTDZ, ch. 40 in Portland, OR, is supposed to go on the air later this fall.

John M. Lentz heard WCGV-TV, ch. 24 in Milwaukee, WI, announcing that it was dropping its STV service as of 7/7/1984, and will be another independent commercial station with movies during prime time and some CBS late-night programs. Also, Local Service Television of San Diego, was chosen in a LPTV CP Lottery to build a ch. 8 station in Milwaukee, WI, with a 10-15 mile radius coverage area. WFBM-TV, ch. 66 in Joliet, IL, dropped its SPECTRUM STV service on 6/15. They're now broadcasting music videos from MTV all day until midnight. An article he sent from the 7/2/1984 Milwaukee Sentinel expounded on it. Selec-TV, its STV service, had been losing money in the Milwaukee area. The decision was made by Selec-TV, although general manager George Drymalski had objected to the dirty movies shown at night. On Saturday nights WCGV will show horror films hosted by Los Angeles based horror queen Elvira (That's something like Roland or Zacherly, which you older members might remember.)

Larry G. Fuss caught me in another mistake. It was WGTW, ch. 8 in Athens-Atlanta, that changed to WPBS and later rescinded their request after PBS objected. WVEU ch. 69, Larry confirms, was interfering with land mobile radio, and has to foot the bill to have all the land mobile stations change frequency. It was the FCC that assigned ch. 69 to Atlanta when the owners of WVEU applied to have ch. 63 assigned to Atlanta. "So why hold the station liable for any interference?"

With FCC deregulation, almost anyone can file for a new television station, and Larry

is able to help find an available channel or make an available channel (i.e., petitioning the FCC to assign one). Many WFTDA members are already involved with television stations and perhaps others would like to become involved. If interested contact Larry at P.O. Box 3976, Jackson, GA. 30233-0976. He guarantees that he will design transmitter towers above sea level, now below, as certain other parties have beendoing. Speaking of which, Larry noticed in the 7/2/1984 issue of Broadcasting seventeen applications for new television stations either directly or indirectly connected with Michael Thurman. Six of them call for 5 kw ERP as usual, for visual, but at the same time propose 50 kw aural! Two applications are for channels where construction permits were already granted. (Actually, I counted five, not including Pine Bluff, AR, which I think is still vacant. Also, There is no assignment for three of those applications, unless the magazine printed the wrong channel.)

Mike Dornier took note of some of the formats evident in television stations lately. Along with the increase of Christian television stations owned by protestant groups, the Roman Catholic Church is also going heavily into television, with KCHF (ch. 11, Santa Fe), KIKS (ch. 46, Guasti, CA), WLAE (ch. 32, New Orleans), KDTU (ch. 27, Tucson), and privately owned WLIG (ch. 55, Riverhead, NY). This seems to include station ownership and programming. Another new format is video music. (I already mentioned WVEU-TV, ch. 69, and WFBN-TV, ch. 66; another person wants to construct a ch. 55 in Lake Dallas, TX, with a video movie format. I question how successful this format will be. While video music will definitely be with us for a while, I suspect that its present popularity may be only a temporary thing. Mike also gave a list of old construction permits with an interesting history of the construction permit for WTVU, New Haven, CT, which was granted on June 24, 1954! A thirty year old construction permit! More on that in a future issue. But I'm trying to keep the summer issues short.

I owe Walter Patton a big apology! I found the missing January letter in a folder with a list of CBC repeater stations. I was updating the repeater list with his information when the translator microfiche came. Then I put the Canadian file aside and forgot all about it. That information will appear in next month's column.

Also next month: more on WTTE-TV, ch. 28, sent in by David Moody; FCC's action on excessively noisy television commercials

If you can dig up the 6/29/84 USA Today, check out page 10A, or whatever the opinion page is in your area. The issue of the day is the recent massive FCC deregulation of the broadcasting industry. I'm still trying to find out exactly what rules were dropped, in addition to the ascertainment of public needs and news coverage. But this will be covered heavily in a few months. If you have an opinion on this, send it in.

WESTERN TV-DX

Fred McCormack
Box 5221
State University Sta.
Fargo, ND 58105

August 1984

Deadline: 9- 7-84

There are quite a few reports this month; even though, the consensus of the reporters seems to be that June has not been an outstanding DX month. In fact, many would say that June has been an outstandingly poor month for DX!

New _____ New Mode _____ Tent. - t Unidentified - unid S/On - + S/Off - =
ID Color Bars - 0 - Unid Color Bars - % IHTP - 0 Misc. Test Patterns - &

John Ebeling, 9209 Vincent Avenue South, Bloomington, MN 55431

CST

On June 8 (Friday - I took off work), up here at the cabin (Prosit), I had the TV on all day and the following were ID'ed:

June 1984	8 Es	1630	WCBD	2 SC	8 Es	(MUF 107.5 @ 1944 -TX)	
8 Es 0830	WBRZ	2 LA	1700	WWL	4 LA	1945	CFAC 2 AB
1030	KMID	2 TX		WBRZ	2 LA	2000	<u>WLBZ</u> 2 ME
1100	KPRC	2 TX	1900	CKTV	2 SK	2100	WBRZ 2 LA

This has got to be, in my opinion, one of the least productive June Es months that I can recall in all of my DX'ing years. I have spent a total, so far, of 15 days at the cabin watching the low band, especially channel 2 and have not really seen very much. It seems as if even the 27 MHz CB band had more Es during the winter that it has had during June this year.

Yesterday afternoon, the 25th, I noticed an opening for about half an hour on channel 2. At 1250, I began receiving full color bars with tone. They lasted, with fades, until about 1320. No ID was given on the hour and no call was superimposed over the bars. The direction was south or southwest.

Later on, another opening developed. I noticed it on channel 2 about 1715. At 1730, KUTV-2, Salt Lake City, UT identified. At 1800, KEIS-2, Arkansas Public TV was in. Also had a short but intense Es on channels 3-5. Texas was in on channels 4 and 5 with north Texas news, but no ID was noted, and the opening never made it to the FM band as far as I could tell. At 1830, I left the cabin for Minneapolis, as the opening seemed to be fading out. About an hour later, even CB was devoid of skip, so I guess I didn't miss anything!

William Draeb, Ellis St., Rt. #2, Kewaunee, WI 54216

CDT

Es continues to be only "fair" here with most openings weak and/or of short duration. Most only made it to channel 4, too.

I saw KLBX-4 testing at 2030 (6/25) with 3/4 color bars. I called the station and was told they had been testing for about 1 1/2 weeks and expected to begin programming on July 1st. Like a nerd, I forgot to ask which network, if any, they would be carrying. On their 3/4 color bars was a bunch of info including their PO box number which is 562.

A long and rather uneventful dry spell for Es from the 10th to the 22nd made June worse for Es here (so far) than May.

May 1984			13 Es	1218	KJACT	4 TX	23 Es/Au	2142	chs	2-4	ne
1 tr 1958	WGRB	34 KY	508	14 Es	1215	WCBDt	2 SC	2158	KATC	3 LA	
	WTVQ	36 KY	473			WSB t	2 GA	2202	KJACT	4 TX	
	WKLE	46 KY	473		1225	WESht	2 FL		WBR2t	2 LA	
6 Es 0733	WCBDt	2 SC			2050	unids	chs	2 - 4	CKSat	2 AT	
	unids	chs	3 & 4	19 Es	1425	WBR2t	2 LA	2227	CITL	4 AT	
0805	KDBC-4	or KAMR-4				KATC	3 LA		unids	thru	ch 6
(Miss Hispanic Pageant						WWL t	4 LA	2305	CBKFT2t	3 SA	
at Eisenhower Jun HS)				1530	WMAB	2 MS		2307	CFRnt	3 AT	
	KDFWt	4 TX				WKRgt	5 AL	2325	CKB3t	4 AT	
	KTVX	4 UT				WDSU	6 LA	2340	CKB1t	5 AT	
0824	%KCWSt	3 CO		1840		KNDX	2 ND	24 Es	0845	unid	channel 2
1132	KID	3 ID				KWSE	4 ND	1045	KATC	3 LA	
	KSL t	5 UT		20 Es	1012	unid	ch 2 south	1933	KSFA	2 NM	
	KUTVt	2 UT			1900	unids	chs 2-4 s	1927	KPRC	2 TX	
1402	KPRCt	2 TX		22 Es	2340	WLBZt	2 ME	2039	KBTXt	3 TX	
	KATCt	3 LA				%CHSJt	4 NB	2040	KATCt	3 TX	
13 Es 1218	KPRC	2 TX				unid	channel 3	2039	KENW	3 NM	
	KBTXt	3 TX				CKGW	2 NB	2040	KAMR	4 TX	

Western TV DX

William Draeb (continued)

7 Es 1455 KUTV 2 UT S" and overloading
KTVX 4 UT considerably less.)
KCWC 4 WY 20 tr 0745 W51AF 51 IL
KTWO 2 WY (La Salle LPTV)
KTBS 3 LA 21 Es 1615 unids
KPRC 2 TX 1815 WWAY 3 NC
unid ed west 1620 WEZ 4 MA
(TV auction) 1900 WPBT 2 FL
1829 KOTA 3 SD 1917 WESH 2 FL
(ABC prog promo) 2327 KTVQ 2 MT
KWSET 4 ND KYUST 3 MT
KEMET 3 ND KOUS 4 MT
KNDXT 2 ND 2335 KXLF 4 MT
1900 KCWC 4 WY 22 Es 0000 KXLYt 4 WA
KBTX 3 TX KRTVt 3 MT
1903 KID 3 ID KTVQ 2 MT
1947 KDFWt 4 TX 0013 KTVM 6 MT
KXAST 5 TX 0020 KLEWt 3(WA)
1955 KMOL 4 TX (DX still in @ 0110 on
KFDX 3 TX channels 2-4. I went
2010 KTVX 4 UT to bed.)
2100 KAMR 4 TX 1220 KTVQ 2 MT
2134 KTBS 3 LA KRTV 3 MT
2200 KJAC 4 TX KOUSt 4 MT
KARK 4 AR KXLF 4 MT
2215 KENWt 3 NM unid ed ch 4
8 Es 1850 WCBdt 2 SC 1251 KEMet 3 ND
1930 WSAV 3 GA 1925 WPBT 2 FL
1937 KIII 3 TX WDIQ 2 AL
2028 KRIS 6 TX WTVJt 4 FL
2115 KMIDt 2 TX 2000 CITL 4 AT
2120 KWABt 4 TX CFRnt 3 AT
Many unids. CKSA 2 AT
9 Es 1400 unid ch 3 south CBXTt 5 AT
1805 KPRC 2 TX CBXFT1t 6 AT
1940 unid ch 4 nw CFQ2t 6 SA
(Expos vs Mets, English CKBI3t 4 SA
commentary. Same on 2300 CBKFT2t 3 SA
channel 6. Other unid All gone.
chs 2-6. All gone by 23 Es 1240 WESHt 2 FL
2100. Returned 2240 24 Es 1611 WCBSt 2 NY
briefly.) WFSBt 3 CT
11 tr 2115 CKCY 2 ON 1625 WNBct 4 NY
(Over WBAY-2. Strong 25 tr 0730 WTVQ 36 KY 473
lake inversion.) 0800 WXIX 19 OH 400
12 Es 1235 KPRCt 2 TX Es 1900 KUTV 2 UT
1945 KPRCt 2 TX KTVXt 4 UT
1955 KMIDt 2 TX KATCt 3 LA
15 tr 0813 WFIE 14 IN 420 1925 KJACt 4 TX
WEVV 44 IN 420 KATCt 3 LA
WGRB 34 KY 508 1935 KCWct 4 WY
WTVQ 36 KY 473 1945 KEMet 3 ND
KDNL 30 MO 432 2025 KRTVt 3 MT
0828 WBAK 38 IN 348 2026 KYUST 3 MT
(Vy strong. Over WCFC KLINE 3 NE
and WPNE. Central IL 2030 KLEBY 4 KS
and IN U's snowfree.) 2038 CITL 4 AT
17 Es 1139 unids chs 2-4 s 26 tr 0550 WKYT 27 KY 473
20 tr 0054 KDNL 30 MO 432 WTVQ 36 KY 473
(Removed "Mighty Mite" WXIX 19 OH 400
WCET 48 OH 400

James J. Stiles, CFAO/NAPK, Box SU/LR ADP, FPO Seattle, WA 98770 (Okinawa)

JST

Equipment: Sharp 26" PAL/SECAM/NTSC color model C261-SPN, AOR Ltd. AR-2001 25-550 MHz Scanner, Grove Power-Amp wide-band preamp, three element 50 MHz yagi beam, Grove Scanner Beam.

May 1984
14 Es 1900 C1-C5 unid China

16 Es 1130 C1-C5 unid China
FM to 95.6 China

Western TV DX

August 1984

James Stiles (continued)

3 Es 0830 A4 Yeoso, Korea
0930 C1 & C2 unid China until 1930
4 Es 1200 R1 Vladivostok, Russia
1930 C1 unid China
5 Es 1200 C1 & C2 unid China
2000 C1 unid China
6 Es 1200 C1 unid China
7 Es 1700 R1 Vladivostok, Russia
A2 Seoul, Korea
C2 unid China
8 Es 1130 C1 thru C3 unid China
A2 Seoul, Korea
1800 A2 DWWX Quezon City, Philippines
2000 R1 Vladivostok, Russia
9 Es 1030 R1 Vladivostok, Russia
1900 A2 DWWX Quezon City, Philippines
10 Es 0800 A2 DWWX Quezon City, Philippines
0830 A4 DGTV Quezon City, Philippines
A6 DWHB Baguio City, Philippines
0930 A3 DYEW Baguio City, Philippines
A2 DYHB Baguio City, Philippines
11 Es 1700 A2 DWWX Quezon City, Philippines
C2 unid China
1900 C1 unid China
12 Es 1200 R1 Vladivostok, Russia
A2 Seoul, Korea
13 Es 1200 C1 & C2 unid China
1730 C1 unid China
15 Es 1200 C1-C5 unid China
1830 C1-C2 unid China
1900 R1 Vladivostok, Russia
16 Es 0900 C1-C2 unid China
0930 A4 DGTV Quezon City, Philippines
1500 R1 Vladivostok, Russia
17 Es 1300 C1-C2 unid China
1500 R1 Vladivostok, Russia
1600 A2 DWWX Quezon City, Philippines
A4 DGTV Quezon City, Philippines
19 Es 1200 C1-C3 unid China
1830 C1 unid China
20 Es 1700 A2 Seoul, Korea
1800 R1 Vladivostok, Russia
23 Es 0815 R1 Vladivostok, Russia
24 Es 1700 R1 Vladivostok, Russia
25 Es 1700 R1 Vladivostok, Russia
26 Es 1130 R1 Vladivostok, Russia
A2 Seoul, Korea
R2 Komsomolsk, Russia
27 Es 1900 R1 Vladivostok, Russia
28 Es 1200 C1-C2 unid China
A2 DWWX Quezon City, Philippines

16 Es 1830 R1 Vladivostok, Russia
1900 C1 Harbin, China
17 Es 1800 C1-C2 unid China
25 Es 1200 C1 unid China
1815 A2 DWWX Quezon City, Philippines
26 Es 0930 C1-C2 unid China
A2 Seoul, Korea
A3 Jinju, Korea
A4 Yeoso, Korea
1015 C3 & C4 unid China
A5 Seoul, Korea
FM to 96.4 China
1830 C1 unid China
27 Es 0800 R1 Vladivostok, Russia
0830 A2 Seoul, Korea
A3 Jinju, Korea
A4 Yeoso, Korea
0845 A4 DYBQ Bacolod City, Philippines
A2 DWWX Quezon City, Philippines
A3 DYDY Cebu City, Philippines
0855 A5 Seoul, Korea
C2 & C3 unid China
A6 DWHB Baguio City, Philippines
0900 A6 Masan, Korea
2E 0910 E3 Malaysia (Double Hop)
A3 DYDY Cebu City, Philippines
FM to 94.7 Philippines
1000 FM to 99.5 Hong Kong
1630 Es continued until this time.
1800 R1 Vladivostok, Russia
C2 Changchun, China
R2 Komsomolsk, Russia
2000 A2 DWWX Quezon City, Philippines
C3 & C4 unid China
28 Es 0900 C1 & C2 unid China until 1500
29 Es 1730 C1 unid China
30 Es 1900 R1 Vladivostok, Russia
31 Es 1200 C1 & C2 unid China
1700 A2 DWWX Quezon City, Philippines
A4 DYBQ Bacolod City, Philippines

June 1984

1 Es 1200 C2 unid China
1730 R1 Vladivostok, Russia
2200 C2 unid China
2 Es 0830 R1 Vladivostok, Russia
1800 C1 unid China
3 Es 0800 A2 Seoul, Korea
0830 A3 Jinju, Korea

Late May and early June provided the best openings thus far this season. On May 27, Es began at 0800 and (with the exception of 1630-1800) continued until 2000 with 2 Es at 0900. A six hour opening occurred the next day, and on June 3, a ten hour opening occurred. However, by mid-June, the duration, intensity, and MUF of openings significantly declined. While conditions now are below average to marginal, openings continue to be logged on a near-daily basis.

(Jim, I am wondering if your listing of DYBW on channel 3 and DYHB on channel 2 both in Baguio City is in error? I don't have a Philippines station list handy; so am, at the moment, unable to check where you may have meant to indicate their locations to be. fm)

Jim Pizzi, P.O. Box 1778, Lovington, NM 88260 (505)-396-3251

MDT

Equipment: Panasonic 12" b&w, Sony 8" b&w, Panasonic 13" color, Motorola 19" color, Finco P-7 with EU-4S at 70', OM 6' with EU-4S at 35', Winegard 2073 (channels 7-13) with AC-9730 preamplifier at 75', Winegard 2026 (channels 2-6) with AC-9260 preamplifier at 30', plus other antennas.

Jim Pizzi (continued)

May 1984
 27 Es 1715-1800 unids 2-4 n
 1800 KGFE 2 ND 1058
 KUSD 2 SD 761
 1835 WCPX 6 FL 1359
 1837 WCRG 5 AL 936
 1850 WSB 2 GA 1098
 1900 KNDX 2 ND 936
 WDIQ 2 AL 1008
 1s 2300 KBVO 42 TX
 Es 2349 KTVQ 2 MT 900
 (S/off @ 2351,
 then ID'd CB's)
 2350 KTWO 2 WY 698
 (Until 2400)
 28 ms 0015 KSAF 2 NM 264
 (Snow free 4 second
 burst. Shortest burst
 seen at this QTH.)
 Es 1134 KUSDt 2 SD 761
 29 tr 1100 Houston 20,26
 31 Es 1000 WBRZ 2 LA 743
 1001-1015 unids 3-6 e
 1030 WRBL 3 GA 1067
 WMAB 2 MS 828
 WCBT 4 MS 864
 1455 WCRG 5 AL 936
 1532 WTVY 4 AL 1067
 1700 WESH 2 FL 1346
 WDIQ 2 AL 1008
 1757 WJBK 2 MI 1260
 2101 WSB 2 GA 1098

June 1984
 1 tr 0345 K44AK 44 TX 200
 (Estilline LPTV(KOKH))
 ms 0346 @WBRZ 2 LA 743
 tr 0400 KTCB 7 TX 377
 0408 K57## 57
 (Unknown KMTV- 9)
 0410 K53## 53
 (Unknown KOKH-25)
 0434 Houston 20, 26,
 and 39 515
 0445 K47DB 47 TX 195
 (Clarendon KAMR- 4)
 K51CJ 51 TX 195
 (Clarendon KFDA-10)
 0447 K38AP 38 TX 200
 (Memphis KAMR- 4)
 0450 K46## 46 TX
 (Unknown KAMR- 4)
 0452 K7OCF 70 OK 291
 (Arnett KAMR- 4)
 0455 K42AL 42 TX 200
 (Memphis KFDA-10)
 0530 unid ch 31 ne
 1145 WTMW 2 IN 981
 1226 KTVU 2 CA 1116
 1235 WBBM 2 IL 1040
 4 Es 1030 unid ch 4 TRM
 1125 X--- 2 TRM
 (Tuxtla)
 1350 unid ch 2
 (Resolution TP with mx
 from "Stereo Rey")
 1559 unid ch 6 TRM
 1717 unid ch 5 13 net

5 tr 0700 K16AB 16 OK 273
 (Guymon KWT-12)
 KUPK 13 KS 360
 Es 0715 unid ch 2 ne PTL
 1030 WCRG 5 AL 936
 1200 KTVQ 2 MT 900
 1357 KVVU 5 NV 698
 1359 KXLF 4 MT 1004
 1400 KNAZ 2 AZ 495
 (New State)
 KOUS 4 MT 891
 1602 XEW 2 DF 960
 1631 XEWO 2 JA 840
 1900 KGFE 2 ND 1058
 2001 KOTA 3 SD 774
 (ID u/KENW)
 2009 KNDX 2 ND 936
 2059 KSPY 4 SD 806
 (KSPY 9-13-4 ID)
 1s 2254 KTXH 20 TX 515
 KRTV 26 TX 515
 2300 KHTV 39 TX 515
 2327 KLTJ 49 TX 368
 6 Es 1700 WCBT 2 SC 1359
 WCIV 4 SC 1359
 WCSC 5 SC 1359
 1709 WSAVt 3 GA
 1719 WRBL 3 GA 1067
 1730 WDIQ 2 AL 1008
 WTVY 4 AL 1067
 1753 WEAR 3 FL 950
 1800 WCRG 5 AL 936
 WJXT 4 FL 1300
 1830 WBRZ 2 LA 743
 WEDU 3 FL 1300
 1836 WWL 4 LA 819
 1900 WDTN 2 OH 1152
 7 Es 0800 WCBT 2 SC 1359
 WSB 2 GA 1098
 WDTN 2 OH 1152
 1712 KTVN 2 NV 1008
 1714 KCRL 4 NV 1008
 1715 KNPbt 5 NV
 1730 KTVU 2 CA 1116
 1800 KRON 4 CA 1116
 KPIX 5 CA 1116
 1815 KCBS 2 CA 855
 1900 KNBC 4 CA 855
 KTLA 5 CA 855
 2000 XEW 2 DF 960
 2100 KGAN 2 IA 878
 2117 WBAY 2 WI 1125
 2121 CKCYt 2 ON CTV
 8 Es 1030 CKPR 2 ON 1260
 CBWT ? 3 MB
 (ID- Is this CBWFT-3?)
 (Only if in French.fm)
 1600 WLWT 5 OH 1125
 1602 WCMH 4 OH 1215
 WTTV 4 IN 1059
 1610 WAVE 3 KY 1049
 1658 WRTV 6 IN 1059
 1713 KGAN 2 IA 878
 1729 WBAY 2 WI 1125
 1730 KMTV 3 NE 698
 1845 WNEB 5 MI 1247
 1858 WJIM 6 MI 1215
 1900 WDIV 4 MI 1260
 2103 unid ch 5 ne
 2143 KTCA 2 MN 968

9 Es 1030 WCRN 2 TN 968
 1103 WCRG 5 AL 936
 1130 WLBT 3 MS 772
 1200 WRBL 3 GA 1067
 WCBT 4 MS 864
 1230 WSB 2 GA 1098
 2115 KCBS 2 CA 855
 KNBC 4 CA 855
 2331 WBBM 2 IL 1040
 10 Es 1249 KBCI 2 ID 990
 1653 KGAN 2 IA 878
 2340 unid ch 2 Mexico
 11 Es 1700 KGFE 2 ND 1058
 1730 CKND1 2 MB 1184
 1900 WBBM 2 IL 1040
 2000 WDTN 2 OH 1152
 2004 KRON 4 CA 1116
 2009 unid ch 4 SC-WV?
 2111 WCRN 2 TN 968
 12 Es 1059 KTVQ 2 MT 900
 1100 KUTV 2 UT 707
 1113 KSL 5 UT 707
 1900 KGAN 2 IA 878
 KIMT 3 IA
 1939 KIMT 3 IA 900
 2000 WSAZ 3 WV 1238
 2059 KGFE 2 ND 1058
 13 Es 1000 WPMY 2 NC 1350
 1s 1530-1600 OKC 14,25,43
 & Tulsa 41 & 23.
 1712 WDTN 2 OH 1152
 2047 KTVN 2 NV 1008
 2100 KTVU 2 CA 1116
 2101 KPIX 5 CA 1116
 2117 unid channel 5
 2133 KCRa 3 CA 1071
 14 Es 1959 WPMY 2 NC 1350
 2138 CKND1 2 MB 1184
 15 Es 1359 CKTV 2 SA 1188
 2205 K47AB 47 TX 195
 K49AQ 49 TX 195
 2210 K51CJ 51 TX 195
 K46## 46 TX
 K48## 48 TX
 (Unknown KVLI- 7)
 K50## 50 TX
 (Unknown KFDA-10)
 2236 K54## 54 TX
 (Unknown KAMR- 4)
 16 Es 1100 WSB 2 GA 1098
 1203 WYEF 4 SC 1206
 1418 unid ch 2 Mexico
 (Antenna ne. Nothing
 south. Backscatter?)
 1604 unid ch 3 Mexico
 1715 XEWO 2 JA 840
 1719 unids ch 3-6 Mex
 1740 XHTV 4 DF 960
 1859 XHOC 5 DF 960
 1900 WRCB 3 TN 1035
 1958 KCBS 2 CA 855
 (2Es possibilities?)
 1959 KBCI 2 ID 990
 2000 WDIQ 2 AL 1008
 2100 KTVN 2 NV 1008
 17 Es 1308 KCBS 2 CA
 1310 KNBC 4 CA
 2000 KBCI 2 ID 990
 2030 KTVQ 2 MT 900
 2052 KWSE 4 ND 1035

Jim Pizzi (continued)

17 Es 2058 KEME 3 ND 937
 (Prairie Public TV)
 2103 KIVVt 5 SD ABC
 2111 KNDX 2 ND 936
 2119 KIVV 5 SD 765
 2126 KOTA 5 SD 756
 2158 KTWQ 2 WY 698
 2301 KTVQ 2 MT 900
 2325 KOUS 4 MT 891
 18 Es 0930 WBRZ 2 LA 743
 1000 WDSU 6 LA 819
 1030 KRON 4 CA 1116
 1100 KJAC 4 TX 574
 1103 WWL 4 LA 819
 (2Es possibilities?)

18 Es 1142 KTVU 2 CA 1116
 1300 KTCA 2 MN 968
 1201 unid ch 2-5 Mex
 1230 XEW 2 DF 960
 XEZ t 3 QR XEW
 1230 unid ch 5 Mexico
 XHJCMt 4 AG
 1459 KTVU 2 CA 1116
 1500 KTVQ 2 MT 900
 1532 KOBI 5 OR 1224
 1600 KRON 4 CA 1116
 1700 KNAZ 2 AZ 495
 1728 KCBS 2 CA 855
 20 Es 1623 WESH 2 FL 1346
 1700 WBAY 2 WI 1125
 1719 KQTVt 2 MO
 1724 KGAN 2 IA 878

20 Es 1730 WSKJ 2 TN 1170
 1800 WSB 2 GA 1098
 1900 WBBM 2 IL 1040
 21 Es 2117 WESH 2 FL 1346
 2131 WCBT 2 SC 1359
 0756 WJBK 2 MI 1260
 0927 CKND1 2 MB 1184
 1058 KGFE 2 ND 1058
 KEME 3 ND 927
 23 Es 1600 KTVU 2 CA 1116
 25 Es 1216 KREM 2 WA 1224
 1741 WSB 2 GA 1098
 1756 WBRZ 2 LA 743
 1800 WRBL 3 GA 1067
 WDIQ 2 AL 1008
 1829 WESH 2 FL 1346

Re 6-6 @ 1753: WEAR-3 was announcing to its viewers that 'co-channel interference' was causing viewing difficulty and attributed the problem to 'atmospheric conditions.' KENW was the culprit!

My November 12, 1983 loggings of KSWs on channels 58 and 68 have been deleted from my TV log. As was suggested to me by a fellow DX'er, I now believe these to be transmitter spurs, or whatever, of KSWs-8. I've had several good tropo openings to the area I thought they originated from and haven't seen them again.

A good report period this time around with a lot of new ones and lots of relogs. Tropo very disappointing this year - nothing beyond the usual 400 miles out. Surprising, because the moisture in the air has been high lately - 60% to 80% humidity. Lots of Es though, but nothing spectacular.

A pair of birds built a nest between the feed point and sub-reflector on my Channel Master 6 foot dish - but I still have the usual 400 mile tropo scatter. I guess it'll take more than a nest, two birds, and some eggs to attenuate the EU-4S! I'll not disturb them (except for a little ride when I turn the antenna) - they're not doing any harm. Tropo has been for the birds anyway. (Sorry, I couldn't resist.) Best of dx. 73's, Jim

Jeff Kadet, Box 20, Macomb, IL 61455 (309)-833-1809

CDT

Equipment: Zenith N1310, Zenith 9" b&w, Channel Master 1110 with CP 3800 preamp, RG-11 at 50', Channel Master 7' dish with EU-4S preamp, .500 cable at 55'

June 1984
 1 tr 2230 W51AF 51 IL 105
 (La Salle LPTV)
 2 tr 1715 WISC 3 WI 185
 0310 WRHT 31 MI 375
 3 tr 0310 WRHT 31 MI 375
 (Audio-wx, Video-STV)
 0315 WXMI 17 MI 300
 (Telethon)
 0345 WEYI 25 MI 400
 (Telethon)
 0530 CKCO3 42 ON 460
 0531 WXON 20 MI 400
 0555 CKGN29 29 ON 460
 (Also had an unid on
 channel 40 which was
 not Indy - to ne)
 1830 WSCO 14 WI 345
 4 Es 2000 WESH 2 FL
 2009 WEDU 3 FL
 5 tr 0110 WTMJ 4 WI 220
 6 Es 0916 XEFB 2 NL
 tr 1700 WXGZ 32 WI 275
 7 tr 0126 KMTV 3 NE 280
 0130 KOLN 10 NE 320
 0150 WTTV 4 IN 240
 0243 KELO 11 SD 375
 Es 1800 KGBT 4 TX 1065
 1803 KITI 3 TX
 tr 1806 KQTV 2 MO 225

7 Es 1839 XEFB 2 NL
 2112 KTVQ 2 MT 1140
 2158 KFBT 5 MT 1125
 8 tr 1630 WNTN 9 IN 245
 1800 WCAV 30 TN 365
 Es 1830 KTVQ 2 MT
 KOUS 4 MT 925
 KRTV 3 MT 1125
 2225 KSAF 2 NM
 2230 KOB 4 NM 940
 2233 KCBS 3 CO 880
 2249 KWGN 2 CO
 9 Es 1805 KMID 2 TX
 1926 KSAF 2 NM
 1929 XEPM 2 CH
 2029 KENW 3 NM
 2100 KUTV 2 UT
 tr 2215 WSLI 3 IL 220
 Es 2258 KCWC 4 WY 945
 2303 KYCUt 5 WY
 2310 KTWQ 2 WY
 10 tr 0043 KOAM 7 KS 305
 0050 KETV 7 NE 280
 0123 WTVN 7 IN 245
 0151 WEAU 13 WI 290
 0628 K56AF 56 IA 225
 (Clarinda KMTV- 3)
 0739 K79BL 79 IA 90
 (Iowa City WOC - 6)

10 tr 0740 K74CU 74 IA 90
 (Iowa City KGAN- 2)
 0800 W55AST 55 WI
 (Too much WRSP)
 11 tr 0100 WISH 8 IN 240
 Es 1800 KUTV 2 UT
 2140 unid ch 2 Span.
 12 tr 0350 WLCN 19 KY 280
 (AN religion)
 0545 WPSD 6 KY 235
 Es 1245 XEFB 2 NL
 1259 KSAF 2 NM
 1503 KMID 2 TX
 2003 XETU 2 ?
 2004 KNAZ 2 AZ
 2015 KVOA 4 AZ 1255
 2100 XEWO 2 JA
 2125 KDBC 4 TX
 2126 unid ch 5 Span.
 13 tr 0127 WZTV 17 TN 365
 0040 WTHR 13 IN 240
 0051 WITC 11 PA 550
 0055 WPGHt 53 PA
 0140 WKBN 27 OH 510
 0200 WKRC 12 OH 335
 0339 WTVF 5 TN 365
 0528 WBNS 10 OH 400
 0717 WITS 28 OH 400
 2000 WGTB 30 OH 375

Jeff Kadet (continued)

Jeff Kadet (continued)				21 tr	0530	+KTCL	17 MN	335	22 tr	2345	KXNE	19 NE	365	
					0620	K14AF	14 IA	205	23 tr	0022	=KUON	12 NE	315	
						(Decorah)	KYIN	24		0026	KCAU	9 IA	325	
18 tr	2330	WTCN	11 MN	335		0635	WQOW	18 WI	235		0035	=KEYC	12 MN	290
19 tr	0125	WPTY	24 TN	380		0650	@KXLI	41 MN	390		0103	KTTV	4 IA	325
										0130	K20AD	20 MN	335	
										(Worthington KSTP- 5)				
				0459	WTVS	56 MI	400			0630	WTCT	27 IL		
					(Also chs 20,50)						(Calls, x-WDDD)			
				0530	WKAR	23 MI	350							
Es	1200	WFBT	2 FL			1718	WCIV	4 SC	790					
	1300	WCBD	2 SC			1732	CBFT	3 NS	1400	25 tr	0308	=W32AC	32 IN	270
20 Es	1815	XEPM	2 CH			1730	WCIX	6 FL	1185			("Ax-TV")	S/off after	
		KNAZ	2 AZ			1755	CHSJ	4 NS				PTL Club, then CB.	No	
	1823	XEFB	2 NL			1834	WECT	6 NC	810			calls.)		
	1827	unid channel 2				1858	WMAR	2 MD			0540	W39AA	39 IN	285
21 tr	0055	WBAY	2 WI	300		1900	WRC t	2 DC				(Fort Wayne	WBGU-57)	
	0226	KSTP	5 MN	335		1927	WFBT	2 FL				WBGU	57 OH	360
	0343	K14AD	14 MN	380		2000	WUFT	5 IL		29 tr	0400	K20AD	20 MN	
				(Willmar	KSTP- 5)	22 Es	0043	CKTV	2 SA	970		(In color for an hour)		
	0405	K15##	15			0120	CITL	4 SA	1275	0537	unid ch 32 ABC			
				(Music Channel)		0126	CBKMT	4 SA	960		(Another MN xltr)			
	0515	KIMT	3 IA	215		0158	CFRN	3 AT	1425	Es	2130	XEWO	2 JA	

I'm not sure if KSTP's translator in Willmar is their only one on channel 14. If it is, then at 380 miles, that's my best catch from Macomb so far. And, where is that Music Channel on channel 15 from (same general direction)????

Mystery XETU-2 seen again this year. I still don't know where it is from. I will count the XEW-2 ID slide seen on the 12th and 29th as the closer XEWO. The distance varies from 1460-1575 miles depending on the map, but I'm sure it was only single hop. CBKMT's ID slide says 'CBC9' and there's a little '4' in the round part of the '9'.

The new dish at 55 feet is a significant improvement over the Super Diamond Quantum at 30'. The furthest regulars are KMEG-14 (330 miles), KSNF-16 (320 miles), and WLKY-32 (300 miles). Milwaukee-18 (225 miles), South Bend-16 (235 miles), and Indianapolis' 40 and 59 (235 miles) are always in and WCAY-30 (365 miles) is always there, but it is usually chewed up by same offset KDNL.

Reluctantly (with a capital 'R'), I have to give up the EU-4S due to images. Peoria 19, 25, 31, and 47 (62 miles ene) and Springfield 20 and 55 (82 miles se) are so bad now that there could be a killer opening during regular schedule hours to the ne/e/se, and I'd be helpless to ID anything. Except for KDNL-30, everything within 175 miles goes off at night, and that's when the EU-4S shines, but so be it. When will technology catch up with TV DX'ing? Glenn Jacobs is getting me a Winegard 4975 and I will use it with the channel 39 signal extractor. Total now 307. 73.

(Jeff, there is only one KSTP translator on channel 14; that being, K14AD. There are, however, two KSTP translators on channel 20. One is K20AD at Worthington, and the other is K20AC at Wadena. Also, regarding your channel 32 ABC, there are two KSTP translators on channel 32. They are K32AE at Long Prairie and K32AF at St. James. K32AF is a powerhouse with a listed ERP of 14 kW and is closer to you than K32AE with an ERP of 1.62 kW. I wonder if your unid on channel 15 with the "Music Channel" may be W15AB at Rice Lake. The Music Channel is an SPN program, and W15AB is an SPN affiliate. fm)

William Eckberg, RR#4, Dixon, IL 61201

CDT

Equipment: Zenith b&w tube receiver, CM 1110 VHF antenna, CN 7' UHF parabolic with Winegard PA4975 preamplifier on a 30' tower.

May 1984

31 tr 0550	WTWO	2 IN	183	7 Es 1830	KFBF	5 MT	1112	13 tr 2230	KAVT	15 MN	222
0608	WEVV	44 IN	270	1848	KRTV	3 MT	1112	14 tr 0003	KBIN	32 IA	327
0645	WFTY	20 IN	214	2240	KWGN	3 CO	811	0615	K14AF	14 IA	162
Es 1605	KMID	2 TX	967	2300	KSAF	2 NM	972		(Decorah)	KYIN	24
1608	KSAF	2 NM	972	8 Es 1800	KMID	2 TX	967	19 Es 1123	WFBT	2 FL	1229
				1805	KACB	3 TX	933	1127	WESH	2 FL	983
				1828	XEPM	2 CH	1162	1330	WCBD	2 SC	797
				1850	WDTN	2 AL	727	tr 2200	WLIO	35 OH	278
				1920	KSAF	2 NM	972	20 tr 0045	KYFC	50 MO	323
				2200	KENW	3 NM	912	0105	KYSN	27 IA	355
				12 Es 2100	KSAF	2 NM	972	21 Es 1640	WLBZ	23 MO	1030
				2235	KNAZ	2 AZ	1258	1650	WESH	2 FL	983
				13 Es 1100	WESH	2 FL	983	1655	WPTV	5 FL	1168
				1125	WFBT	2 FL	1229	1800	CBHT	3 NS	1272

William Eckberg (continued)

21 Es 1825	WCIX	6 FL	1229	21 Es 2100	WEDU	3 FL	1031	25 Es 1800	XEFB	2 NL	1282
2100	WPBT	2 FL	1229	2200	WDIQ	2 AL	727	1830	KNDX	2 ND	732
				24 Es 1700	WGBB	2 MA	918	1900	KTVQ	2 MT	968

XEFB is on channel 2. I've received and photographed them twice there. I'm only reporting 400 mile plus tropes except for new stations. 300-400 mile tropes common during the month. The test pattern of KOLR-10 at 372 miles is in every morning from 0520-0530. Log at 354 with 11 new.

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103

CDT

Equipment: VHF: Broadmoor 9" black & white, Winegard CH-7078; UHF: Magnavox 19" color, Winegard CH-9095, Blonder-Tongue OMA-Uc pre-amp; Alliance rotor.

June 1984				15 Es 1100	WDTN	2 OH	800	22 Es 2259	CFAC	2 AT	840
9 Es 1828	WDIQ	2 AL	1195	1127	WSAZ	3 WV	935	(MUF 96.3 @ 2305 - nw)			
1903	unid ch 2 French			1129	WFMt	2 NC	1150	23 Es 0027	CKSA	2 AT	730
2200	WLBT	2 MS	1070	1458	unid ch 2 se ABC			0032	CFRN	3 AT	870
2208	WBRZ	2 LA	1185	1500	unid ch 3 se ABC			1130	unid ch 2 e NBC		
2213	KATC	3 LA	1185	21 Es 2354	KREM	2 WA	960	1150	CCI to KXJB-4		
(MUF 93.3 @ 2220 - TX)				22 Es 0059	WAGA	5 GA	1115	1159	WCBS	2 NY	1210
2230	KPRC	2 TX	1195	0102	=WRBL	3 GA	1190	1402	unid ch 2 NBC		
2234	KBTX	3 TX	1120	(MUF 101.7 @ 0104 - GA)				25 Es 1915	unid ch 5 sw		
2304	KMID	2 TX	1060	0106	WSAZ	3 WV	935	1918	KUTV	2 UT	880
2305	KFTX	3 TX	900	(Weather radar)				1959	KSL	5 UT	875
12 Es 1936	unid ch 2 Mexico			0113	WCTV	6 FL	1305	(MUF 105.3 @ 2026 - SC)			
2028	KATC	3 LA	1185	(Weather radar)				2033	WSAZ	3 WV	935
2059	KPRC	2 TX	1195	0115	=WRBCB	3 TN	1005	2034	CCI o/KXJB-4 NBC		
2231	unid ch 2 XEW			0130	WFMt	2 NC	1150	2226	unid ch 2 se ABC		
13 Es 2006	unid ch 2 Mexico			0151	unid ch 4			tr 2228	KUSD	2 SD	265
14 tr 0541	KITC	10 MN	310	0757	unid ch 2 NBC			29 Es 1927	KMID	2 TX	1060
0553	WXOW	19(MN)	340	1123	unid ch 2 sw NBC						
0558	WHO	13 IA	385	1130	XEPM	2 CH	1180	July 1984			
Es 1958	KATU	2 OR	1240	1159	KSAF	2 NM	915	4 tr 1908	K52AM	52 MN	145
2005	KLEW	3(WA)	960	1205	XEJ	5 CH	1180	(Roseau)	KTHI-11)		
2057	unid ch 2 Mexico			1230	KNAZ	2 AZ	1120	1930	K50AM	50 MN	145
2100	KPRC	2 TX	1195		unid channel 5			(Roseau)	KXJB-4)		

June was certainly a dismal month for Es. Like others have commented, I don't believe I have ever seen it as poor. The highlight was probably the unusual late night Es opening on June 22. This opening brought me my first channel 6 Es logging from Fargo. Local WDAY-6 signed off just in time to leave several minutes of WCTV reception. They were displaying a weather radar with the slogan "Live on WCTV" superimposed on it. How's that for luck!

I have indicated unid color bars for my logging of XEJ on the morning of the 22nd. They indeed had no call letters displayed, but instead had telephone numbers on it which checked out as numbers assigned to the station.

Tropo has also been far from outstanding, but for June, I don't suppose it has been as dramatically poor as has been Es. The opening of the 14th would have been a nice one to watch, but I had to go to work. Checking the installation at my office around 1000 - 1100, I noted lots of UHF. It seemed that Madison 15, 21, and 27 were in along with what were most likely Chicago's 26 and 38. Of course, there were also many translators and the more obvious PBS U's.

Worldwide TV-FM DX Association

ANARC UPDATE

STEVEN P. SPRACHMAN
39-16 48 Street
Sunnyside, N.Y. 11104
1-718-937-8721

TRAVELLERS, TOURISTS, AND DX'ERS

I've always wanted to be a traveller. I've wanted to go where I've wanted to without being bound by the constraints of time and money. I've wanted to be able to stay in one place as long as I liked. To be able to explore it until I've gotten bored. And then to move on to wherever my fancy took me.

Unfortunately, I can't do this. I have to worry about how much a trip will cost. I only have a limited amount of time that I can take each year away from work. I have to plan almost every minute of a trip in order to get the most out of it. If I like a place and I want to explore it, I can only stay as long as my plans permit. I am stuck being a tourist. When I'm away, I get a small taste of the place I'm in. I try to savor it as long as I can, but it is never enough.

As a DX'er, I have an advantage over most others tourists. For a few moments of an opening, I can place myself back on a past trip. I can remember the places I saw, the foods I ate, the smells, the sounds. I can imagine myself back in the hotel room listening to a radio station or watching the television. For a few moments, I would get a chance to do one of those things I'd do as a traveller.

For those planning trips this summer, or who have already taken one, I wish you the best of times and I hope you will get to do all that you planned.

Taking a trip is not without its troubles. This leads me to Part 1 of "The Trip To TORONTO, the 1984 ANARC Convention". Originally, I planned to drive to Toronto. Being at least a 12 hour drive, I figured I take July 19 to the 23rd. I submitted my request to my supervisor. A month later, she said "you can have the 19th, 20th but not the 23rd". If I drove, I'd walk in like a zombie, so my wife suggested that we fly. She said we could fly People's Express to Buffalo and rent a car. So we went to the travel agent who was planning our trip to Columbia. She said the off-peak fare is \$27 each way but we'd have to go to Newark Airport at 5 AM. She then told us of a fare on US Air for \$49 out of LaGuardia. I said that we had to think about it. I went to her later in the week to find out about rental cars. She called one company who gave her a rate of \$51 a day. I figured it would be cheaper to drive and walk in like a zombie on July 23rd. So, I went home and called several rent-a-car companies. All gave me weekend rates of \$17 or \$18. This isn't the first time the travel agent gave us wrong information. So, we figured we'll just book our air line reservations with her. We went to see her the following Saturday. We walked in there and it seemed like everyone who knew her was in there. We finally were able to get her assistant to call the airline. This time they told her the fare was \$54 each way. I told her I wanted to check this out. We went home and I called the airline. I got a fare of \$54 going and \$49 return. I booked the flights. I then went ahead and reserved a car. I have since booked our trip to South America and reserved the hotels. We have not gone back to that travel agent. After this experience, I may never go to another travel agent.

Next time, Part II- The Convention.

Here are some DX get-togethers and conventions of interest:

AUGUST 4 The Chicago Chapter of RCMA LPM at Nancini's Restaurant-5555 St. Charles Rd. Beckeley, IL. For more information call Edward Robert Sirovy at 1-312-969-2856.

AUGUST 4 Washington Area DX Assoc. Cookout and picnic Lucy Woods Park, Arlington, VA. Call Arlene Luskin at 1-301-593-4411 for more information.

AUGUST 4 American Shortwave Listener's Club 10AM-3PM at the club's headquarters - 16182 Ballard Lane - Huntington Beach, CA. Call 1-714-846-1685 for details.

AUGUST 17-19 International Radio Club of America The Annual convention at the Sheraton Westgate Hotel in Toledo OH. IRCA is a club for MW (AM) DX'ers.

AUGUST 21 Austin Area Radio Listeners 7PM at the Austin Public Library 4th floor - Room B - Austin, TX

SEPTEMBER 1-3 National Radio Club's annual convention in Colorado Springs, CO. For more information, write to Wayne Heinen - 1642C South Indalia Drive - Aurora, CO 80017

Don't forget to send a SASE with your request and please mention that you heard about it from WTFDA.

I'd like to thank Dave Browne, ANARC's News Editor for letting me know of these upcoming events.

Well, it's time to get a new correction pencil.

73's

Steven P Speechman.

QSL CORNER

Thomas J. Yingling, jr.
221 Pinewood Road
Baltimore, MD 21222

11 **WTVD**
together

September 19, 1983

TV-QSL copies & others.

WTVD-TV ch. 11, 411 Liberty St.
P. O. Box 2-09, Durham, NC 27702
reply in 1 week from Edward T. Well, CE. (Fahber)

WOPC-TV ch. 23, P. O. Box 609
Altoona, PA 16603. reply from
John R. Powley, owner reply in
1 month. (Reid)

WETK-TV ch. 33, Burlington, VT
Ethan Allen Ave., Winooski, VT
05404-1097 from Hope S. Green,
GM in 11 days. (Reid)

WTLW-TV ch. 44, 1844 Baty Rd.
Lima, OH 45807 reply from
Roger Rhodes, PD in 2 weeks.
(Reid)

WISH-TV ch. 8, 1950 N.
Meridian St., Indianapolis, IN
46202. reply from John ?
(unreadable) in 3 1/2 weeks.
(Reid)

Mr. Bill Fahber
336 Atlantic Street
Bridgeton, New Jersey 08302

Dear Mr. Fahber:

Thank you for your letter confirming off air reception of WTVD, Durham, North Carolina.

WTVD uses a maximum TV facility transmitting from atop a 2000' tower, with a circular polarized transmitting antenna, with a nominal radius of 80 miles. Occasionally atmospheric conditions are right to expand the radius usually only for a short period of time, several hundred miles through a phenomenal call cloud ducting.

We would be interested to hear your comments in the future, should you continue to receive WTVD with any regularity.

Our program log entries agree with your reception for September 11 and 12, 1983.

Thank you for your interest in 11 together.

Sincerely,

E. Wall
Edward T. Wall
Chief Engineer

ETW/lsm

TV 23 • Color

WOPC

ABC Primary for Altoona • Central Pennsylvania

P.O. Box 609
Altoona, Pennsylvania 16603
Telephone 814-943-2607

September 19, 1983

Mike Reid
109 Arjay Crescent
Willowdale, Ontario
CANADA M2L 1G6

Re: Reception Report

Dear Mr. Reid:

Thank you very much for your letter of August 22, 1983;

concerning your reception report on WOPC at 9:50 AM on August 19, 1983.

Your report is correct as to programming and our ID. What you may not know is that WOPC is operating on only 21 TV visual output power and is perhaps the smallest UHF TV network affiliated station in the USA. We have generally only one man on duty in the control room running the TV station (but also running our 250 watt FM station!!!!).

If you receive us again, we would appreciate hearing from you. We have been fighting with Cable TV systems 15 to 25 miles away that don't wish to carry us for 9 years.

Sincerely,

John R. Powley
John R. Powley
Owner

Sorry folks about missing last month VUD, So this month is an 2-pager! I'm still low on qsl supply to type up. So send some in. The special I did on reporters to the QSL Corner a few months ago, may have an update soon! I got an complete list from Don Erickson & others. Just as soon as I get time I'm going use my computer to print it out.

TELEVISION PSYCHOSIS



EASTERN TV-DX

William J. Draeb
Ellis St. R.R.#2
Kewaunee WI
54216

- TX KTXA 21 Arlington, 1712 East Randol Mill Road. Send typed letter from Marilyn Greene, Asst. Program Manager. She said that she was "amazed"! Reply in 1 month for my second reply from the Dallas Fort Worth area at 820 miles! From now on I'm going to address my report to the Chief Engineer. The letters I get from program managers leaves something to be desired. (Ely)
- OH WSFJ 51 Thornville, 10077 Jacksontown Rd. 43076. Letter from Charlotte Reichley, Pro. Dir. in 4 months send personal letter, bumper-sticker, & stn. info.-(Newark, OH) (Ross)
- TX KMID 2 Midland, P. O. Drawer B, 79711. Letter from Grady Woodward, CE in 10 days, with data sheet explaining E skip. This was received on rabbit ears just 20 miles east of WBBM-2 local station. The signal was so strong. (Johnson)
- NY WHEC 10 Rochester, 191 East Ave. 14604. Personal letter from Jerry Evans, CE in 6 months after follow-up. (Ross)
- PA WQEX 16 Pittsburgh, 4802-5th Ave. 15213. Letter from Bob Hollinger, Ast. CE after 1 1/2 years after follow-up report. (Ross)
- NE KLINE 3 Lincoln, Box 83111, 68501. Letter from Bob Sander, CE after 3 1/2 years after follow up report. (Ross)
- SD KOTA 3 Rapid City, Box 1760, 57709. Form letter after 4 years after follow report from Don Larsen, CE. (Ross)
- ONT CITY 79 Toronto, 99 Queen St. E. M4C 2M1. Personal letter from Bruce Cowan, Supervisor after 5 years after follow up report. (Ross)
- IN WEHT 25 Evansville, Box 395, 47703. Personal letter from Elmer Chancellor, Dir. of Eng. in 45 days (Ross)
- VA WAVY 10 Portsmouth, 801 WAVY Street (!), 23704. Letter from Paul W. Hecht, CE in 3 1/2 weeks, he verified main channel & ch. 41 translator. (Fahber)
- WVEC 13 Norfolk, 110 Third Street, 23510. Letter from Richard L. Cannon, CE in 1 months. (Fahber)

below is copy of page 1 of an 2-pager letter from KYUS-TV ch. 3 Miles City, MT that Mike Reid got. Send to P. O. Box 760, zip-59301 to David G. Rivenes, President and GM. Got a reply in 3 weeks.

KYUS

TELEVISION --- Channel 3
MILES CITY, MONTANA 59301



Dec. 20, 1983

Hello Mike,

Your letter of Dec. 12 arrived this morning. Thanks for it.

It's a cinch that you were watching KYUS-TV because we use the slide you pictured all the time. We get reports of reception every now and then from Chicago, Louisville, etc. But we have never had a report from Ontario. You're the first.

For your information, this is the smallest station in the world, in the smallest market. It's also considered to be the unique station---for various reasons. First, we run the station with a total staff of 5 people---my wife and I, plus our grand daughter, plus two young men. That's by far the smallest crew in the business---and particularly small when you consider that we produce up to 5 local half hour shows each day, plus an average of 3 hours per week of remotes.

We have no AP nor UPI, nor any other news service---and don't want any. We have good news only---most of it local or state. We suggest to our viewers that if they want bad news, they should turn to another station.

We work very hard---long hours. For example, I started work this morning shortly after 6 AM, and won't finish until at least 11 tonight. That's 7 days a week. Tomorrow is a busy one for us. We have some commercials to do, plus THAT SHOW: our cooking show, which we do in our own kitchen. Friday we go to a neighboring town to do an hour-long program from a school, and yesterday we visited a one-room country school for a 1 hour Christmas program which we will air tomorrow night.

We telecast local basketball tournaments and games, football games, wrestling tournaments, school plays, etc. And we go long distances to get programs---the furthest being to Valley Forge, Pennsylvania, to cover the dedication of a Montana garden by our governor. That's 3000 miles from here.

Our station has been featured on such shows as Real People, To Tell The Truth, The Today Show, NBC Nightly News, 60 Minutes, and also shows on Austrian, German, Japanese, Australian, and Canadian programs. The Canadian program appeared on a show called "W-5", I believe. You may have seen it.

We are also unique in that my wife and I are 71 and 68 respectively---and are active in other things besides television. She is involved in international Women's Clubs, the Sopranoist Clubs, etc. And both of us are involved in lots of sports, having been volunteer coaches of several sports for many years. At present, I'm on the Executive Committee of the World Taxmen's Federation, President of the Pan American Atackwon Do Union, past president

Reports from DX'ers
Bill Fabher, Bridgeton, NJ; Mike Reid of North York, Ont. Canada; Nate Ely of Madison, WI; William H. Johnson, of Clarendon Hills, IL; & Robert Ross of London, Ont. Canada. I wonder how many of you may have noticed that I stopped typing the states in a to z order. Any Comments? What do you want? Which way? This way this month makes it easy for me, for I may miss a state in order, and not get to it much later on. Write in your ideals, with qsl reports. OK? See you in Jamestown for convention 84'.

73's

Tony.

August 1984
W.P. Townsend; 4500 Conn. Ave. NW, Washington, DC, #901, 20008 EDT
June 1984
7 Tr 0842 WCAU-10 PA
0850 WKEX-8 VA
1000 WPVI-6 PA
June 1984
8 Tr 0825 WTVR-6 VA
9 Tr 0843 WPMI-43 PA
0900 WMGM-40 NJ
June 1984
12 Tr 0544 WYAH-27 VA
2300 WHRO-15 VA

The rigs used for the above were: Sony ICF-S5W (bottom end of the FM band); General Electric 7-2924A (pocket receiver; chs. 8 and 10 heard on TV bands of 4 band receiver); Sylvania b&w TV. I also have a Realistic Portavision 12-660 and recently bought a Realistic Portavision 5S 12-778 which has a UHF band.

Frank Wheeler; 6589 Wattsburg Rd., Erie PA 16509 EDT
May 1984
31 Es 1500 KWGN-2 CO 1128
2320 KSNK-2 KS 1015
2323 KNOP-2 NE 1066
2326 KDUH-4 NE 1138
2329 KSNW-3 KS 953
June 1984
7 Es 2359 KQTV-2 MO 779
8 Es 0900 KJRH-2 OK 943
1000 KSNK-2 KS 1015
13 Es 1300 KNOP-2 NE 1066
21 Es 1100 WMAB-2 MS 882
1559 KETS-2 AR 929
June 1984
21 Es 1600 KTBS-3 LA 1005
1700 WWL-4 LA "
1758 WLBT-3 MS 882
1803 WRZ-2 LA 1159
1900 WDIQ-2 AL 815
1901 WTVY-4 AL 805

Equipment: Sylvania (1977) color. Antenna-Archer VUL60; Servo Rotor. Log totals 289 received-215 verified.

Michael Cunningham; Box 615 Cooper St., Harrisville WV 26362 EST-EDT?
April 1984
6 Es 1730 KPRC-2 TX
Houston
1756 -----6
Cuba
1800 WPBT-2 FL
1829 WCIX-6 FL
Miami
1900 WEDU-3 FL t
1905 WTVJ-4 FL
Miami
9 Tr 1759 WGTG-30 OH
Toledo
22 Tr 0034 WKIX-19 OH
Cincinnati
May 1984
6 Es 1659 KAMR-4 TX
Amarillo
1743 KJRH-2 OK t
7 Tr 2100 WKPI-22 KY
Pikeville
10 Tr 1800 WXON-20 MI t
12 Es 1450 KTBS-3 LA
Shreveport
1500 KPRC-2 TX
13 Es 1700 WGH-2 MA
Boston
1705 CBHT-3 NS
Halifax
1715 WLEZ-2 ME
Bangor
1745 CHSJ-4 NB
St. John
May 1984
13 Es 1900 CBFT-2 PQ
Montreal
14 Es 2230 KNOP-2 NE
15 Es 1913 WLEZ-2 ME
1920 CBGAT-4-2 PQ
Mont-Louis
(Only 62 watts if my info is correct!-wd)
19 Es 1130 KLINE-3 t
1205 WPBT-2 t
words "atmospheric interference" seen.
1230 KETS-2 AR
Little Rock
1300 KBTX-3 TX
1305 WDIQ-2 AL
Dozier
1330 KTBS-3 LA
1359 WERZ-2 LA
Baton Rouge
1400 KATC-3 LA
Lafayette
1454 KMID-2 TX
Midland
1518 KDFW-4 TX
Dallas
1830 KFDX-3 TX
Wichita Falls
24 Es 1500 KUSD-2 SD
1505 KTVQ-2 t
1530 KPRC-2 TX
2200 KWGN-2 t
27 Tr 0137 WLWT-5 OH
Cincinnati
May 1984
27 Tr 0142 WKRC-12 OH
Cincinnati
28 Tr 1730 WCET-48 OH
Cincinnati
31 Es 2130 KDUH-4 t
2143 KNDX-2 ND
Dickinson
2159 KIVV-5 SD
Lead
2200 KOTA-3 SD
Rapid City
2232 KPRY-4 SD
Pierre
June 1984
1 Es 0007 KPIO-6 SD
Reliance
2 Tr 0256 WLEZ-18 KY
Lexington
0429 WDIV-4 MI
Detroit
2258 WTTT-28 OH
Columbus
3 Tr 0500 WJBK-2 MI
Detroit
5 Tr 0240 WQVZ-7 MI
Detroit
0400 WKOI-43 IN
Richmond

The Es season is off to very good start here. Thirty-five new stations since my last report. I finally got the tower and antennas up on 5-26. Antennas are CM 7' UHF and CM 1110 VHF. My thanks to Doug Dornbas for his letter answering my question whether or not you could put an ant. longer than 10' on a Rohm HBX tower. How much space should there be between ants? Mine are 24' apart but they don't seem to work very well under normal conditions. (Although it isn't very practical, in order for your CM 1110 to work properly, it should

Eastern TV-DX Cunningham, continued--- August 1984
 be at least 8 1/2' from your dish-wd.) April 13 was a very good day here with a rare Es opening to the NE that brought in excellent pictures. Regarding the question in the June VUD about KPRY-TV changing networks, they were ABC on 5-31 when I saw them and they're listed as ABC in the 15th ed. of the Vane Jones guide.

Saul Chernos; 79 Ridge Drive, Toronto ON M4T 1B6 EDT
 From Burnt River ON:

May 1984	May 1984	May 1984
13 Es 1600 WDIQ-2 AL	21 Es 1226 WPTV-5 FL	24 Es 2000 WPBT-2 FL
1607 WTVJ-4 FL	1700 WESH-2 FL	2030 KATC-3 LA
14 Es 2300 KJRH-2 OK	23 Es 2330 KSRE-6 ND	2330 KPRY-4 SD
2304 KTVY-4 OK	Minot	KDUH-4 NE
15 Es 2100 KSNK-2 KS	KWSE-4 ND	2358 KTWO-2 WY
19 Es 1240 WESH-2 FL	24 Es 1955 WJXT-4 FL	29 Es 1945 WBRZ-2 LA
	1956 WESH-2 FL	
May 1984	May 1984	May 1984
7 Tr 0025 CICO-28-28 ON	7 Tr 0030 WUHF-31 NY	12 Es 1510 KPRC-2 TX
0028 WXXI-21 NY	12 Es 1430 WBRZ-2 LA	Houston

Nice start to the season though it died somewhat at month's end. I do very little TV DX in Toronto, mostly while visiting other DXers, heh! I spent most of May 23 opening on FM where I had SA, MB, ON, (NW1), ND, MN, and MT. TV was a mess of signals! 73's and good DX.

Harry Hayes; 9 Henry St., Wilkes-Barre, PA 18702 EDT

Usually when I write a DX report early the band breaks out wildly the next day. Let's hope that this is the case this time. How could a May with so much Es promise turn into the worst June that ever happened? I don't know, but it did. Am I nuts, but wasn't there a time when summer Es was a rather common occurrence? Undoubtedly this year, as in the previous six below average skip seasons there will be those nearby who will be raving about a productive season. This is something which mystifies me about VHF DXers and I'm kind of shy to say it, but almost irks me as well. (I'll have to agree with you Harry. I couldn't have put it any better. I really haven't seen the "intensity" in the Es openings so far this season and there was a long dry spell, about 10 days here, in June when virtually nothing was seen. I suppose there are those who did see a lot of good openings and happened to be in the right place at the right time. Let's hope it gets better before it gets worse.-wd) On the other side of the coin, we still have eight more days to go in June and July as well, so who really knows what 1984 will turn out to be. Also there have been a few nice tropo days, although not as many as one might suspect with all the early hot days. Equipment: Winegard 2-6 VHF yagi in attic w/CM amp. Finco 6' UHF dish with Winegard PA-4975 amp. mounted in attic. RCA ColorTrac 25" TV.

May 1984	June 1984	June 1984
26 Tr 1700 CICA-19 ON	8 Tr 0702 WLVT-39 PA 45	13 Es 1230 KATC-3 LA
Es 2000 KSNK-2 KS	(normally mountain blocked)	1730 WPBT-2 FL
29 Tr 1801 WMDT-47 MD	0705 WTEY-54 NY 80	WESH-2 FL
Salisbury	Poughkeepsie	WEDU-3 FL
	(almost snow free)	1756 WTVJ-4 FL
June 1984	0730 WTVR-51 PA 100	1930 WTVY-4 AL
2 Es 2030 KATC-3 LA	(SelectTV promos)	18 Tr 1730 WVTA-41 VT 215
3 Es 1630 Unids ch.2	WITF-33 PA 100	19 Es 1318 WLBT-3 MS
8 Tr 0652 WUTR-20 NY 135	0735 WCNY-24 NY 135	1320 WMAB-2 MS
(perfect signal)	(good signal)	1330 KTBS-3 LA
0700 WCPB-28 MD 150	0900 W71- NY (WSKG)	21 Es 1045 chs.2&3;
WGCB-49 PA 100	(PTA Liberty NY, fair sig.)	gone by 1100.
Red Lion	Es 0930 chs.2-5, intense, short.	

New underlined. Yes, kind of sparse in the skip dept. I'm also unemployed this summer so I keep an eye on the set at virtually all times so you daytime working people can rest assured that you're not missing much, at least here in the north-east. Total now 186 seen. (Harry, I would like to take this opportunity to commend you on your artistic efforts when you draw for the cover of the VUD. I always get a kick out of your drawings and it's unfortunate that more of us aren't gifted like you in that department.-wd)

Eastern TV-DX

Thomas J. Yingling Jr.; 221 Pinewood Rd., Baltimore MD 21222 EDT

May 1984	June 1984	June 1984
29 Es 2230 KLINE-3 NE	8 Tr 2200 WENY-36 NY	8 Tr 1931 WNJU-47 NJ
Tr 2200 WMGM-40 NJ	2212 WMGC-34 NY	2000 WFMZ-69 PA
Wildwood	2225 WVT-30 CT	2005 WNJB-58 NJ
31 Es 2230 KLINE-3 NE	2230 WSEK-38 MA	2010 WNTJ-52 NJ
	9 Tr 0130 WTHY-54 NY	2030 WSEK-38 MA
June 1984	0135 WWLP-22 MA	2035 WNJM-50 NJ
6 Tr 0100 WTJC-26 OH	0740 WGGT-48 NC	2038 WDEH-24 CT
Springfield	8 Tr 2040 WONE-25 MA	9 Tr 0750 WPCQ-36 NC
0130 WFGH-53 PA	2045 WLT-39 PA	0755 WPTF-28 NC
7 Tr 1630 WNYE-25 NY	2050 WLIW-21 NY	0800 WLFL-22 NC
1645 WRLH-35 VA	2100 W59- NY	13 Es 1700 WEDU-3 FL
1650 WENY-36 NY	2105 WTX-20 CT	1730 WEAH-3 FL
8 Tr 1930 WNYC-31 NY	2130 WDCD-19 MA	1740 WCIX-6 FL
1945 WXTV-41 NJ	2145 WWPB-31 MD	1800 WPBT-2 FL

Equipment: Sony KV-1214 12" color TV. Quantum 1114 at 45'; Finco 5' dish at 50'. Preamps: Winegard BC-234; DX Labs EU-4s; Blonder Tongue CMA-Ub 75 ohm; CDE AR-22L rotor. VCR: Magnavox VHS 8 hour, Model VR8400BK01. Trap: Channel Master #7008 tunable Q trap, low band-FM. Now using EU-4s amp. I got the variable gain model so my locals don't overload it. Also got a VCR to tape my DX on. Now I'm making a video I.D. tape of my DXing. Also using my Timex-Sinclair 2068 computer as my logbook. 73's. See you at Jamestown.

Roy Barstow; P.O. Box 488-T, Teaticket MA 02536 (617)-548-2329 EDT

May 1984	June 1984	June 1984
24 Tr 2100 WHRO-15 VA 440	11 Tr 0650 Unid-14; Spanish	17 Tr 1500 WERE-28 270
2115 WBOC-16 MD 340	Philly?? Tom Ying-	WITF-33 325
2200 WUNM-19 NC 595	ling, do you know	to WTHY-54 170
2240 WCPB-28 MD 340	who they are?	WLVT-39 PA 260
2250 WTVZ-33 VA 440	12 Tr 2200 WAPB-22 MD 360	WVIA-44 PA 270
2300 W44AD(WTKR)380	WCPB-28 MD 340	1700 WDAU-22 PA "
WMDT-47 MD 340	2230 WDCB-20 DC 380	WMGC-34 NY 275
	WETA-26 DC "	WBRZ-46 NY "
25 Tr 0110 W63AM(WAVY)392	WQCR-50 DC "	(ex-WSKG ???-wd)
0200 Unid-33; relig-	2300 WTKK-66 VA 410	to WICZ-40 NY "
ious, appeared same	2310 WTVZ-33 VA 440	to WCNY-24 NY 300
as WHT-18.	2315 WRLH-35 VA 450	1800 WNNB-31 VT
	2330 W35AB(WXTV)260	22 Tr 2100 W59AT NY
June 1984	W44AD(WTKR)380	W64AA(WNEU)180
5 Tr 2300 WTVX-34 FL 1110	13 Tr 0005 WERE-28 PA 270	W66AA(WABC) "
(in & out to 0140)	0040 Unid-51; NBC, S.	W53AA(WCBS) "
6 Tr 0125-0135 WFLX-29 FL	0050 W53AA(WCBS)180	2200 WTVZ-33 VA 440
W.Palm Beach 1160 mi.	17 Tr 1300 WPHI-17 NY 190	2210 WHRO-15 VA "
0120-0200 Unids on	WPHI-17 PA 260	2230 WYAH-27 VA 450
chs.25&44, south. It pays	WDCD-19 MA 150	2240 WTKK-66 VA 410
to hang in there. At mid-	WTKX-20 CT 125	23 Tr 0005 WRLH-35 450
night I was about to throw	WNHT-21 NH	0200 WNYT-13 NY 185
the big switch with work	WLIW-21 NY 170	Albany
starting at 7 A.M. that	to WWLP-22 MA 110	0205 WWBT-12 NC 455
morning.	WDEH-24 CT "	24 Es 1800 WBBM-2 IL 880
10 Tr 2100 WHRO-15 VA 440	WIAF-29 PA 260	1830 KGAN-2 IA 1080
2115 WBOC-16 MD 340	WVIT-30 CT 110	KTWO-3 MD 1130
2200 WNHT-21 NH	WGGG-40 MA "	KMOX-4 MD 1050
WMEG-26 ME 130	WVTA-41 VT 160	
2230 WNDG-50 NH 100	WEDW-49 CT 135	The highlight of this re-
2243 W59AT NY	WNDS-50 NH 100	port is the Florida recep-
Plainview	WNJM-50 NJ 195	tion. This being the third
11 Tr 0630 WBFF-45 MD 350	to WNTJ-52 NJ 230	opening in the last year.
WPMT-43 PA 340	WEDN-53 CT 80	It only took 10 years of
0635 WPHI-17 PA 260	WSNL-67 NY 140	DXing and here they came
0640 WIAF-29 PA "	1700 WNEP-16 PA 270	in one year. During the 3

but not very strong at times. Fading was present (in & out) during all openings due to distance and they came late at night or early in the morning. Equipment: Super Bandsaw UHF ant. at 30'; Super Vector hi-band & low-band at 20' & 25'; 50' RG-59 and BT Vaulter Plus III amp. Zenith 17" color TV. Total 290.

Eastern TV-DX

Robert Grant; KDBEN, 5775 Bishop, Detroit MI EDT

May 1984 June 1984

24 Es 1015 KATC-3 LA
1130 KYCU-5 WY
KFDX-3 TX
1200 KSNW-3 KS
1205 WDAF-4 MO*
Kansas City
1300 KBME-3 ND
KOTA-3 SD
1310 KIVV-5 SD t
1430 KTBS-3 LA
25 Es 0830 KWGN-2 CO*

June 1984

7 Es Unid-3; Cuba or Mexico

June 1984

7 Es 2200 KSNW-3 KS
8 Es 2200 KENW-3 NM
12 Es 1500 KBTX-3 TX
21 Tr 0730 WTOV-9 OH
WPXI-11 PA
WJAC-6 PA
(super rare)
Pittsburgh U's
Es 1820 CBHT-3 NS
CJCH-5 NS
CKLT-1-3 NB
22 Es 2030 WEDU-3 FL
25 Es 1952 KOTA-3 SD
(now ABC)

June 1984

Total now: 295
* = identified thru local
t = tentative

After getting off to a good start in May, early June seemed like a typical early March as far as Es is concerned. However, the last news item in the 6/25 KOTA Newline seen by Es was a real treat. A report about the viewer confusion caused by a switch to ABC the day before. And a report on why KOTA (along with KHSD and KSGW) went ABC because the ratings were better at ABC. (That's what I really love about small-market stations, they're so honest. hi.) If this had been a Detroit station (or other major-market) switching network they would say it was "To serve the community better". Anyway, KIVV/KEW was seen with it's new logo, the "N" in KEW being the NBC logo.

The ABC ch. 4 offset logging puzzles me a bit. From what I know now, KXLF would be most likely (KOMO and WOAY less so). However, the opening would seem to favor KPRY-4, Pierre SD at the time but that is listed as NBC. Have they changed? (Yes, they are now ABC and were when you saw that. -wd). Anyway, the unid ran a tornado warning and I have sent a card to KXLF. About the tornado warning, KXLF's area had good wx at the time and KPRY had severe wx at that time.

John F. Combs; 2485 Ivan Ct., Orlando FL 32807 EDT

June 1984 June 1984 June 1984

4 Tr WEAR-3 FL(Al)406
Pensacola
0738 WMBB-13 FL 266
WPMI-15 AL 408
Mobile
WFAW-14 MS 526
Meridian
0743 WMAH-19 MS 484
WCTV-6 FL t
WJHG-7 FL 279
0746 WFSU-11 FL 235
0747 WTVY-4 (AL) FL
Dothan
0748 WTVG-40 FL 225
0751 WMAU-17 MS t
0755 WKRG-5 AL 419
Mobile
0801 WDHN-18 AL 303
0850 WKAB-32 AL 395
Montgomery
0851 WLTZ-38 GA 343
0855 WALA-10 AL 417
Mobile
Es 1045 Noted; no time
1830 " at work
2255 KTVY-4 OK 1063
KSNW-3 KS 1131
Wichita
KOET-3 OK 941
Enfanta
5 Es 0015 KFDX-3 TX 1083 6 Tr
Wichita Falls
0021 KAUZ-6 TX t

August 1984

Eastern TV-DX

Combs; continued---

August 1984

Two really great days of both Tr and Es, and then...well, conditions can't be up all the time. That tropo was certainly fun and I hope I got some good photos. The Unid-35 baffles me---the only 35's in that area/direction are PBS and wouldn't normally be on at that hour. The details have gone to the CCI column. I'd really like to I.D. that one as local WOFL-35 has just announced plans to go 24 hours!

I would like to purchase a used 5 foot dish (not a 7 footer) in good condition. If you have such an animal available, please writ me! 73, John.

George Rogers; 320 Lafayette Rd., Chickamauga GA 30707 EDT

Here is my report for the Eastern TV-DX column. TV DX has been hot down here and it will get hotter in the rest of the summer months. Equipment: Zenith 12" portable model No. BT-120-Y and 1977 model Radio Shack VHF-UHF roof antenna.

May 1984 - 24th Es 1140-1735 KXJB-4, CKX-5, CBWT-2-4, KDLH-3, KWGN-2, CKPR-2, CKRN-4, CHNB-4, CICI-5, CKCY-2, KNOP-2, KSNK-2, 2000 CKND-2. 25th Es 0940-1034 KNDX-2, KTWO-2; 1534 KMID-2. 26th Es 0855 XRFB-2; 1925-2005 CKCW-2, CKPR-2. 27th Tr 0930-0950 WEMG-42, WATL-36, WTO-21; Es 2000-2008 KMID-2, XEFB-2. 29th Es 1457 ICR-2 Cuba. 31st Tr 0815-0830 WTBS-17, WTVK-26; Es 1201-1730 KWSE-4, KNDX-2, KBME-3, KGFE-2, KFYR-5, KTWO-2, KWGN-2, KUSD-2, KXJB-4, CKNB-2, KSAF-2, XEFB-2, KOAA-5, KCNC-4, KNOP-2, KDUH-4; 2100-2347 CBFT-2, WCAJ-3, Burlington VT, CKPR-2, CHRO-5, CHNB-4, CFCL-6, KBJR-6, CJIC-5, CBWT-6, CKX-5, WCCO-4, CBWT-2-4, CBWT-5, KDLH-3, CBWT-7-2.

June 1984 - 1st Es 1105-1205 CKCO-2-2, CFCL-2-2; 2nd 1205-1210 WGBH-2, WBEZ-4; 1335 KSAF-2; 3rd Es 1130 KPRC-2; 1735 KMID-2; 4th Tr 0930 WKCH-43; 0950 WGRB-34; 1020 WCAJ-30; Es 1025-1120 XHAA-4, XHRPM-2, KMID-2, XEWO-2; 1550 ICR-2; 1715-2309 XEW-2, XHGL-4, XHAJ-5, XHD-4, XHTI-6, XHTV-4, XHGC-5, XHFM-2, KPRC-2, KDHC-4, XEFB-2, XEJ-5, KGET-4, KRGV-5, KOAA-5, XHRI-2, KMOL-4, KDFW-4. 5th Es 0820-0935 KSNK-2, KTWS-3, XEPM-2; Tr 0947-0952 WGBA-24, WMTT-41, WBR-10; Es 1020-1034 XHRPM-2, KMID-2; Tr 1040 WVEU-69; 1042 WPEA-30 (ex-WETV); 1045 WHMA-40; 1100 WATL-36; Es 1230-1305 XEFB-2, XHD-4, XHGE-5; 1600-2120 XEPM-2, KSAF-2, XHTV-4, XEZ-3, XEW-2, XEWO-2, KDHC-4, XEJ-5, KMID-2, XHGC-5, XHRPM-2. 7th Tr 0810-0915 WLEX-18, WOVL-15, WGRB-34, WWSB-27, WTVQ-36, WKYT-27; Es 1030-1052 KMOL-4, KENS-5, KMID-2; 1312-1412 KWGN-2, KNOP-2, KOTA-3; 1900-2243 KNDX-2, KFYR-5, KGFE-2, KSRE-6, KPRY-4, KUSD-2, KDLT-5, KIVV-5, KTVI-4, WDAY-6, KXJB-4. 8th Tr 0815-0835 WKIX-19, WLKY-32, WLEX-18, WKYT-27, WDRB-41; Es 0920-1230 KUSD-2, KTCA-2, KTWO-2, KNDX-2, KFYR-5, KDLT-5, KPRY-4, KBME-3, KGFE-2, KTVI-4, KPLO-6, KIVV-5, KQTV-2, KOTA-3, KDUH-4, KHAS-5, KNOP-2, KSNB-4, KYCU-5, KWGN-2; 1800-2242 KSAF-2, KNME-5, KGAN-2, XHRPM-2, KMID-2, KTXT-5, KCNC-4, KRMA-6, KOAA-5, XHRI-2. 9th Es 1126 XHRPM-2; 1956-2040 KNDX-2, KWGN-2. 10th Es 2110-2151 Tr-2 Cuba, XEFB-2; 11th 2059-2245 KWGN-2, KSAF-2, KTWO-2; 12th Es 1240-1458 KGET-4, KPRC-2, KNOP-2, KMOL-4, KMID-2, KAMR-4, KLINE-3, KPRY-4, KSAF-2, KSNB-4, KUSD-2, KTXT-5, KWGN-2, KTVI-4, KOAA-5, KGFE-2, KSNK-2, KXJB-4 1604-1635 KTWO-2, KSNK-2, KXJB-4; 1828 WLBZ-2; 1928 WGBS-2; 13th Tr 1010-1020 WWSB-27, WTO-21, WEMG-42, WHMA-40; Es 1022-1118 KMID-2, KAMR-4; 1912-2033 KSAF-2, KWGN-2, Tr-2. 14th Tr 1845-1925 WHIQ-25, WKAB-32, WFTZ-39; Es 2201-2205 KSAF-2, KMID-2. 16th Es 1156-1440 KMID-2, KJRH-2, KENW-3, KACB-3; 2045-2112 XEPM-2, KTXT-5, KDHC-4, XEJ-5. 17th Es 1100 XEW-2; 1605-1608 KPRC-2 KMID-2. 18th Es 0942-1300 XEPM-2, KGET-4, XEFB-2, KRGV-5, KENS-5, XHAA-4, KMOL-4, XHRPM-2. 19th Es 1500 CKCY-2. 20th Es 1400-1405 KOB-4, KSAF-2; 1725-1950 ICR-2, Tr-5, XHGL-4, Tr-2, XHTV-4, XEW-2. 21st Es 1032-1131 WGBS-2, CKCO-2-2, CFCL-3-2, CKPR-2, CKCY-2; 1730-2247 WLBZ-2, CKVR-3, WGBH-2, CHSJ-4, WBEZ-4, CBFT-2, WCVB-5, CHAU-5, CKGN-2-2, CBLT-5, CKGN-6 Paris ON, CHRO-5, WGRZ-2, KUSD-2, KNOP-2; 22nd 0938-1330 Es XEFB-2, WBEZ-2, KGET-4, WGN-2, XHRPM-2; 1850 ICR-2; 23rd Es 1123-1315 XEPM-2, KDHC-4, KMID-2; 24th Es 1800-1850 CBFT-2, CKCW-2, CHSJ-4, CHAU-5-2 Perce PQ.

There were some good Es openings into Mexico the first week in June as well as some good Tropo to Kentucky and I did get a few good Es openings to the Midwest area during the month. I'm still hoping for a high band Es in July. Remember four years ago when on July 17th there was good hi band skip on that day in 1980. (Next time you see some hi band Es, take a picture of it. -wd). I will be going to Woodridge IL and Radcliff KY from July 5 thru the 9 for vacation and to see how good TV-DX is up there. Here's hoping the second half of the Es season is as good as the first. Thank you.

Top Es stations received: No. 1 KMID-2-22times down to KNDX, KGFE, XEPM, KGET, all seen 10 times. Varies in this month: KXJB, KQTV, KMOL, KGAN, KIMT, KPRY, KDLT-5, KDHC-4, KSNB-4.

FM STATISTICS

FM SCOREBOARD

Fred Nordquist
7945 Boxford Road
Clay, NY 13041
Deadline: the 5th

FM STATISTICS AUGUST 1984

RANK	NAME	LOCATION	TOTAL	88-92	ES	MS	AL	USA	CA	MX	FD	TE	YE	AS OF
SORT BY TOTAL														
1	DANNY	BUNTING	OK STILLWATER	1554	235	898	3	0	48+	5	9	2	65	74 9/2/83
2	BRUCE	ELVING	MN DULUTH	1491	213	1231	8	7	44+	3	1	0	49	48 9/7/83
3	JOHN	EBELING	MN BLOOMINGTON	1428	226	825	39	73	47+	4	5	2	57	52 1/3/84
4	RALPH	STROBEL	IN MUNCIE	1228	323	222	37	4	38+	3	1	1	43	72 3/28/84
5	FRED	NORDQUIST	NY CLAY	1209	195	584	28	57	39+	5	2	2	47	69 7/4/84
6	MIKE	BURAJ	CT ENFIELD	1197	158	629	7	21	37+	3	0	1	42	74 12/5/83
7	JIM	PITZ	NH DOWINGTON	1124	152	989	16	0	38	5	14	4	61	81 5/22/84
8	FRED	MCCORMACK	ND DES LACS	1092	148	681	25	87	44+	6	4	2	55	65 6/28/84
9	JIM	MCVEY	TX BILBO	1075	151	392	1	1	42	5	11	1	59	77 7/1/83
10	JOSEPH	FELA	NY S. PLAINFIELD	1062	218	589	2	9	37+	5	2	2	46	68 6/22/84
11	DAVID	NICHAN	NJ AKRON	961	237	231	32	19	41+	7	2	2	51	59 3/11/84
12	FRED	MCCORMACK	ND FARGO	868	126	565	2	48	47+	5	2	2	54	74 6/28/84
13	HANK	HOLBROOK	ND CHEVY CHASE	814	282	215	16	0	35+	5	2	3	44	59 4/26/84
14	SARL	CHERNOS	ON BURNT RIVER	768	114	414	48	72	37+	7	0	0	45	77 4/16/83
15	JOHN	JEFFERSON	CA PLEASANTON	743	153	411	122	0	23	4	4	0	31	57 10/9/83
16	DANIEL	DETTING	CA BROOMFIELD	630	144	216	4	3	32+	5	0	0	36	77 1/2/83
17	JOHN	EBELING	MN PROSIT	609	111	319	2	5	41+	7	0	0	49	75 1/3/84
18	JEFF	KADET	IL MACOMB	609	114	55	4	0	32+	3	0	0	36	83 5/26/83
19	JOSEPH	SMITH	NY JOHNSON CITY	605	88	165	0	0	34+	2	0	1	38	71 4/22/84
20	KEN	SIMON	FL LAKE WORTH	528	145	429	0	2	34+	2	2	0	47	66 9/1/83
21	ALAN	MICHALEX	MA SPRINGFIELD	451	51	244	2	0	36	4	0	0	48	52 7/25/83
22	MIKE	HOGAN	IL BURNHAM	309	68	32	0	0	24	1	2	0	25	76 7/3/83
23	BOB	SCHWEITZER	NJ E. BRUNSWICK	234	75	7	0	0	11+	0	2	2	12	77 9/3/83
24	PAUL	MOUNT	NJ TERRECK	216	28	28	0	0	21+	1	0	0	23	79 4/2/84
25	ROBERT	ROSS	ON LONDON	204	43	19	0	0	14	1	2	0	15	76 2/1/83
26	RONALD	PURDUE	MA BYRON	156	2	95	0	0	20+	0	2	2	23	81 6/5/83
27	FRANK	WHEELER	PA ERIE	148	17	3	0	0	7	1	0	0	8	64 10/12/83
28	WILLIAM	HEPBURN	ON NIAGARA FALLS	144	51	35	0	0	18+	1	0	0	28	78 4/5/84
29	BOB	SCHWEITZER	NJ OLD BRIDGE	121	32	2	0	0	9+	0	0	0	10	82 9/3/83

*=VERIFIED

COLUMN DEFINITIONS are as follows: Total=Total number of FM stations logged. (Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes.) 88-92=81 stations logged from 88.0 to 91.99 Mhz. ES=Total number of stations logged via E-skip. MS=Total by reason scatter. AL=Total via Aurora USA=Total number of states and the "+" = Washington, DC. CA=Number of Canadian provinces logged. MX=Number of Mexican states logged. FD=Number of foreign countries, but not Canada or Mexico. TE=Total number of political units=MS of USA CA MX and FD. YE=The year you began DXing

ALL-TIME FM DISTANCE RECORDS

FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC
88.10		88.70		89.10	
Es MCRP PR Guayama	2288 DBU OK	Es MERN WI Madison	1752 JJe2 CA	Es CKRL PQ Quebec	1453 BE13 NE
Tr MWE IN Elkhart	512 FNo NY	Tr MSIE IL Edwardsville	561 BE12 MA	Tr KMLN MS Wichita	583 BE12 MA
MS MTRX TX Lubbock	1146 FMe2 OH	MS MWR WI Madison	1074 Gha TX	MS KFRF MA Richland	610 JJe2 CA
Au MUTC TN Chattanooga	661 DNI NY	Au MWR WI Madison	684 FNo ND	Au KMLN MS Wichita	651 RBr MI
88.30		88.80		89.20	
Es KSLC TX Keene	1436 JJe2 CA	Es TGR BU Guatemala	1150 Gha TX	Es XEJT TAM Tampico	974 Gha2 OK
Tr MWC WI Colfax	512 FNo NY	88.90		89.30	
MS MTRX LA New Orleans	1109 DNI NY	Es MEXU KY Richmond	2020 JP1 NY	Es MCLM IL East Moline	1696 JJe2 CA
Au MWR NY Syracuse	678 ABo IL	Tr MWR TX Chattanooga	846 BE13 NE	Tr MPCS FL Pensacola	888 RBr MI
88.40		MS MWR TX Chattanooga	872 Gha TX	MS MWR TX Chattanooga	1162 Gha TX
Es TGR BU Guatemala	1150 Gha TX	Au MWR TX Chattanooga	745 FNo NY	Au MWR TX Chattanooga	712 SD CA
88.50		89.00		89.40	
Es KPLU WA Tacoma	1519 DBU OK	Es YSR1 ES San Salvador	1243 PDY TX	Es TGR BU Guatemala	1150 Gha TX
Tr MWR GA Atlanta	891 Gha TX				
MS MFD NC Winston-Salem	1164 Gha TX				
Au MWR DC Washington	932 JEB MN				

FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC
89.50		90.00		94.50	
Es KENW NM Portales	1473 DNI NY	Es XEJB TAM Tampico	873 Gha2 OK	Es MCVL FL Naples	1657 FMe2 ND
Tr KENW NM Portales	966 JPy TN	90.10		Tr KSMB LA Lafayette	875 RBr MI
MS MWR IL DeKalb	1025 Gha TX	Es CLAY AT Calgary	1765 DNI NY	MS KROK LA Srevesport	1046 PSA CN
Au MWR CT Bridgeport	758 ABo IL	Tr CLAY NB Winnipeg	642 FMe MI	Au MWR VA Richmond	575 RBr MI
89.60		MS MWR GA Jackson	929 G3+ IA	94.70	
Es TGR BU Guatemala	1150 Gha TX	Tr MWR WI Sun Prairie	262 ABo IL	Es KTTS MO Springfield	1569 JJe2 CA
89.70		90.15		Tr KTTS MO Springfield	663 BE12 NY
Es XWRW JAL Guadalajara	1586 ABo IL	Es MWR BU Habana	1299 Gha2 CA	MS MWR WI Jackson	1873 FNo NY
Tr MWR FL Miami	1131 Gha TX	90.30		Au MWR NC Raleigh	512 FMe MI
MS MWR TX Denison	1151 JVo VA	Es MWR FL Orlando	1743 FNo ND	94.80	
Au MWR MA Boston	914 ABo IL	Tr MWR FL Orlando	1046 Gha TX	Es TGR BU Guatemala	1150 Gha TX
89.90		MS MWR AL Montgomery	1064 JEB2 NY	94.90	
Es MWR FL Jacksonville	1629 FNo ND	Au MWR OR Portland	1217 FNo ND	Es MWR FL Miami Beach	1948 FNo ND
Tr MWR FL Jacksonville	1820 Gha TX	90.50		Tr MWR FL Miami Beach	1163 Gha TX
MS MWR WI Brule	905 JVo VA	Es MWR FL Panama City	1529 FNo ND	MS MWR GA Decatur	1342 FNo ND
Au MWR WI Brule	496 FMe MI	Tr MWR TX Pasadena	986 RBr MI	Au MWR IA Des Moines	680 FNo ND
90.00		MS MWR TX Dallas	1466 JJe CA	95.00	
Es YSR1 ES San Salvador	1243 Gha TX	Au MWR OH Toledo	745 FNo ND	Es ZFR BW Hamilton	1374 RBr MI
90.10		90.70		95.10	
Es KSRJ MN Collegeville	1519 JJe CA	Es MWR FL Stuart	1583 BE12 NY	Es KROD CO Colorado Spgs	1486 JVo VA
Tr MWR TX Houston	848 JVo FL	Tr MWR LA Jennings	657 JVo NY	Tr MWR FL Jacksonville	1020 Gha TX
MS MWR IL Chicago	1050 Gha TX	MS MWR WI Wausau	431 PSA CN	MS MWR WI Wausau	1146 RBr MI
Au KSRJ MN Collegeville	766 SD CA	Au MWR NE Omaha	425 FNo ND	Au MWR KS Wichita	651 RBr MI
90.30		90.90		95.30	
Es KSRJ TX Corpus Christi	1598 FNo NY	Es MWR MN Duluth	1644 JJe CA	Es MWR VA Petersburg	1439 RBr TX
Tr MWR WI Holmen	812 JVo VA	Tr MWR GA Atlanta	891 Gha TX	Tr MWR FL Apopka	1238 Gha TX
MS MWR WI Holmen	1283 Gha TX	MS MWR TX San Antonio	1251 Gha J	Au MWR CN Hamilton	738 Gha CT
Au MWR IN Ft. Wayne	784 FNo ND	Au MWR VT Burlington	841 ABo IL	95.40	
90.50		93.10		Tr MWR TAM Tampico	583 Gha TX
Es RJam JM Sour Tree	1950 JP1 NY	Es KAMA TX El Paso	1694 DNI NY	95.50	
Tr MWR WI East Lansing	931 RNo LA	Tr MWR NY Syracuse	822 BE12 NY	Es MWR FL Fort Pierce	1619 FNo ND
MS MWR MO Maryville	985 FNo NY	MS MWR SD Sturgis	1183 RNo LA	Tr MWR TX Austin	684 RBr FL
Au MWR NS Halifax	1026 FNo ND	Au MWR MI Detroit	541 JEB	MS KROD KS Dodge City	1195 JJe2 CA
90.70		93.20		Au MWR NC High Point	684 SD CN
Es KROD MO Joplin	1505 JJe CA	Es MWR NL Monterrey	1385 RBr MI	95.70	
Tr MWR NE Omaha	902 DNI NY	Tr MWR NL Monterrey	281 Gha TX	Es MWR ID Twin Falls	1824 DNI NY
MS MWR WI Delafield	983 RBr FL	93.30		Tr MWR AR Little Rock	1043 FNo NY
Au MWR MO St. Louis	850 JJe MI	Es KTEV OK Ada	1454 RSt2 VA	MS MWR OK Ardmore	1177 DNI NY
90.90		Tr MWR FL Tampa	988 Gha TX	Au MWR OH Picqua	467 FNo NY
Es MWR MO Warrensburg	1534 JJe CA	MS MWR TX Port Arthur	1195 PSA CN	95.90	
Tr MWR IA Cedar Falls	583 FNo NY	Au MWR OH Youngstown	689 JEB NY	Es MWR MN Faribault	1561 JJe2 CA
MS MWR AT Edmonton	1170 JJe2 CA	93.50		Tr MWR KS Russell	652 Gha TX
Au MWR IA Cedar Falls	583 FNo ND	Es MWR KS Parsons	1459 JJe2 CA	MS MWR PQ Montreal	852 ABo IL
91.10		Tr MWR MO Greenfield	623 FMe2 OH	Au MWR MN Faribault	477 FNo ND
Es JBC-2 JAM Coopers Hill	1952 JP1 NY	MS MWR MS Clinton	937 PSA CN	96.10	
Tr MWR FL Jacksonville	1020 Gha TX	Au MWR MI New London	339 ABo IL	Es MWR BC Vancouver	1526 JP1 NY
MS MWR MN St. Paul	1114 Gha TX	93.70		Tr MWR FL Jacksonville	1020 Gha TX
Au MWR IN Vincennes	735 FNo ND	Es MWR PR San Juan	2263 RCo OK	MS MWR UT Provo	1047 Gha TX
91.30		Tr MWR TX Houston	1184 Gha OH	Au MWR GA Atlanta	588 RBr MI
Es MWR PR San Juan	1886 Gha OH	MS MWR MA Lawrence	1581 RCo OK	96.30	
Tr MWR FL Miami	1159 Gha TX	Au MWR SD Winner	682 ABo IL	Es MWR IL Chicago	1842 JJe2 CA
MS MWR AT Drumheller	1055 JJe2 CA	93.90		Tr MWR OH Columbus	659 BE12 NY
Au MWR NY Syracuse	538 RBr MI	Es MWR IA Iowa City	1637 JJe2 CA	MS MWR FL Miami	1056 ABo IL
91.50		Tr MWR FL Miami Beach	1163 Gha TX	Au MWR MI Detroit	541 JEB NY
Es MWR BCN Mexico	1462 JEB MN	MS MWR FL Miami Beach	1386 SD CN	96.50	
Tr MWR FL Tallahassee	735 RBr TX	Au MWR SD Rapid City	838 ABo IL	Es MWR PR Fajardo	1998 ABo IL
MS MWR WI Suring	1213 Gha TX	94.00		Tr MWR TX Corpus Christi	967 ABo MI
Au MWR NY Troy	512 FMe MI	Es MWR NL Monterrey	1382 JEB NY	MS MWR TX Corpus Christi	1166 RBr MI
91.70		94.10		Au MWR CT Hartford	585 FMe MI
Es MWR MN Worthington	1457 JP1 CA	Es MWR WA Clarkston	1695 TF1 NY	96.70	
Tr MWR OK Stillwater	781 BE12 NY	Tr MWR AR Little Rock	1043 FNo NY	Es MWR ON Kitchener	1438 JP1 NY
MS MWR OK Stillwater	878 FNo ND	MS MWR TX Beaumont	1192 PSA CN	Tr MWR OH Fostoria	581 BE12 NY
Au MWR MN Northfield	712 SD CA	Au MWR KS Kansas City	881 DNI NY	Au MWR IL Joliet	347 JEB NY
91.90		94.30		96.90	
Es MWR IL Carbondale	1748 JP1 NY	Es MWR CA San Fernando	1518 DNI IA	Es MWR TX McAllen	1463 BE12 NY
Tr MWR IL Carbondale	789 Gha TX	Tr MWR FL Fort Myers	1148 Gha TX	Tr MWR FL Fort Myers	1841 Gha TX
MS MWR WI Mausau	1012 RCo LA	MS MWR TN Oak Ridge	1221 FNo ND	MS MWR MI Grand Rapids	792 Gha2 OK
Au MWR IL Carbondale	741 FNo ND	Au MWR MI Winnipeg	743 RBr MI	Au MWR NJ Atlantic City	785 SD NY

FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC
97.10 Es KDNZ MN Crookston 1451 JJe2 CA Tr MEZB LA New Orleans 863 RBr NY MS KHEA AR Cancun 1876 SCb DN Au WCON WI Sparta 591 FMc ND		99.70 Es WCOF AL Dothan 1454 FMc ND Tr WPC TN Memphis 926 FMc NY MS WMTI OH Columbus 1050 FMc ND Au WMC TN Memphis 591 FMc NY		102.50 Es WSP FL St Petersburg 1414 BE12 MN Tr WBEV NY Buffalo 112 RBr CA MS KDCI VA Williams 881 SCb DN Au WBEA NY Buffalo 732 JJe2 MN	
97.30 Es WIOD FL Miami 1536 BE12 MN Tr MEZB TX San Antonio 1123 RBr NY MS KBUF KS Kansas City 1248 SCb DN Au KDMI IA Des Moines 782 SCb DN		99.90 Es ATSM TX El Paso 1678 RSe NY Tr KROB TX Roostown 1175 RBr NY MS KTYM OH Clovis 1039 JJe2 CA Au KFBF NE Omaha 554 FMc ND		102.70 Es WSMI NC Wilmington 1467 JPi NY Tr WREC TN Memphis 812 BE12 MN MS KCVS WA Richland 1018 Gha TX Au KORD WA Richland 858 FMc ND	
97.50 Es KINT TX El Paso 1578 RSe NY Tr WPCV FL Winterhaven 1022 Pdy TX MS KINT TX El Paso 1168 ABo IL Au WNGO NY Watertown 783 RBr IL		100.10 Es KART MT Plentywood 1428 FMc NY Tr WANE AR Forsyth 596 FMc2 DN MS KBRX AT Lethbridge 938 JJe2 CA Au WIVE VA Ashland 564 RBr NY		102.90 Es WCCO MN Minneapolis 1571 JJe2 CA Tr KQUE TX Houston 1184 Chb DN MS KMBG TX Dallas 1274 SCb DN Au WBCS WI Milwaukee 473 SCb DN	
97.70 Es CBUF BC Vancouver 1526 JPi NM Tr XHEL YUC Merida 733 RBr FL MS WYOP GA Vidalia 829 FMc NY Au CHOM PQ Montreal 686 RSe NY		100.30 Es WDCP GA Tifton 1521 FMc ND Tr WMSN PA Meadville 651 BE12 MN MS KBOB TX Dallas 1090 FMc ND Au WZEN IL Alton 712 SCb DN		103.10 Es KANDY MS Marysville 1358 JJe2 CA Tr KCTO LA Columbus 556 ABo IL Au KJAM SD Madison 368 FMc ND	
97.90 Es KETIA JAL Guadalajara 2056 RSe NY Tr WFLA FL Palm Beach 1152 Gha TX MS WNCI OH Columbus 1088 FMc ND Au WSIK TN Nashville 726 SCb DN		100.50 Es WDCS VA Norfolk 1513 FMc ND Tr WEPJ IL Jacksonville 811 FMc ND MS WKEE WV Huntington 856 Gha2 CA Au WANK TN Knoxville 692 FMc2 ND		103.30 Es KOLL TX Sinton 1405 SCb DN Tr KEEE TX Nacogdoches 982 Chb DN MS KNTD TX Wichita Falls 1346 JJe2 CA Au WVEE GA Atlanta 548 FMc NY	
98.10 Es WTOP OH Canton 2050 FAd GR Tr KRLQ MO St Louis 873 FMc ND MS WLEX KY Lexington 1188 FMc ND Au WULX MO Kansas City 549 FMc2 ND		100.70 Es WDAE FL Tampa 1743 FMc ND Tr KRRQ TX Abilene 799 JAY TN MS WMPJ FL Ft Lauderdale 1268 Gha2 CA Au KGBI NE Omaha 554 FMc ND		103.50 Es KYSN MN Mankato 1523 JJe2 CA Tr WSHF FL Ft Lauderdale 1156 Gha TX MS KORA CO Denver 896 ABo IL Au KGR CO Denver 696 JJe2 MN	
98.30 Es CPLY ON Kingston 1646 JPi NM Tr CBNW MB Winnipeg 842 ABo IL MS KARB UP Price 513 JJe2 CA Au CKLC ON Kingstn 684 ABo IL		100.90 Es KSRG CA Tracy 1428 Gha TX Tr WMSI AL Union Springs 724 ND1 ND Au KGRD MN Luverne 466 FMc ND		103.70 Es WEZS VA Richmond 1494 JPi NM Tr KXKY AR Little Rock 1176 MBu CT MS KVLV TX Dallas 1274 SCb DN Au KIKK IA Davenport 642 SCb DN	
98.50 Es KPAAC TX Port Arthur 1650 Rho2 AT Tr KLAZ AR Little Rock 1176 MBu CT MS WDUZ WI Green Bay 1148 JPi NY Au WSB GA Atlanta 588 RSe TX		101.10 Es CPWI BC New Westminster 1827 RBr MI Tr KLLD TX Houston 986 RBr NY MS WNGE LA New Orleans 1193 SCb DN Au WNZU MO Carrollton 843 SCb DN		103.90 Es KTRP NE Crete 1351 JJe2 CA Tr KBBY OH Westerville 617 DBu CA MS KBBY OH Westerville 617 DBu CA MS KBBY OH Westerville 617 DBu CA	
98.60 Es TBRH GU Guatemala 1218 RSe TX Tr KFDI KS Wichita 683 BE12 MN MS KDBB MN Richfield 716 SCb DN Au WZO NY Rochester 1202 FMc ND		101.30 Es WVRH VA Hampton 1492 FMc ND Tr KFDI KS Wichita 683 BE12 MN MS KDBB MN Richfield 716 SCb DN Au WZO NY Rochester 1202 FMc ND		104.10 Es KRBE TX Houston 1506 JPi CA Tr KRBE TX Houston 986 RBr NY MS WLAG GA LaGrange 1021 BE12 MN Au WIKY IN Evansville 559 JJe2 MN	
98.70 Es KTXN TX Victoria 1538 FMc NY Tr WHPD KY Hopkinsville 725 BE12 MN MS WNGE NC Greensboro 1005 Gha2 CA Au WBF MI Detroit 536 MBu CT		101.50 Es WMSI FL St Petersburg 1533 FMc2 ND Tr WLYF FL Miami 1159 Gha TX Au WIBA WI Madison 758 Sde PA Au WBIIE GA Marietta 573 RBr NY		104.30 Es WKTC NC Tarboro 1485 JPi NY Tr WZYP AL Athens 711 RSe TX MS WMMC MI Detroit 983 FMc ND Au WMMC MI Detroit 745 FMc2 ND	
98.90 Es WPMI AL Montgomery 1357 FMc ND Tr WBSG FL Tallahassee 856 Pdy TX MS KROY CO Pueblo 1038 RSt IN Au WSPA SC Spartanburg 552 RBr NY		101.70 Es KTLQ OK Tahlequah 1435 JPi CA Tr WTRR SC Myrtle Beach 618 RSe CT Au WILS WI Lansing 291 FMc ND		104.50 Es WERT FL W Palm Beach 1895 FMc ND Tr WAST OH Wooster 654 BE1 MN MS KEXL TX San Antonio 1183 RBr NY Au WAST OH Wooster 639 JJe2 MN	
99.10 Es KEEZ MN Mankato 1523 JJe2 CA Tr KODR TX Houston 1184 Chb DN MS WDBK FL Jacksonville 1187 JJe2 MN Au KGMV ID Idaho Falls 688 FMc ND		101.90 Es WMBB MA Falmouth 1576 FMc ND Tr WMLL LA New Orleans 985 Chb DN MS KFMQ NE Lincoln 849 PSe DN Au WRIG WI Wausau 683 FMc ND		104.70 Es WRBD FL Tampa 2298 JPi CA Tr WRBD FL Tampa 979 Pdy TX MS KIOV SD Sioux Falls 898 SCb DN Au KIOV SD Sioux Falls 524 ABo IL	
99.30 Es CFOX BC Vancouver 1526 JPi NY Tr MEZY FL Cocoa 1087 Gha TX MS WMLC FL Monroeville 975 JJe2 MN Au WMEH TN Crossville 298 ABo IL		102.10 Es KLYX TX Houston 1506 JPi CA Tr KLYX TX Houston 986 RBr NY MS KEEY MN St Paul 1028 RSe TX Au KFWO TX Ft Worth 692 ABo IL		104.90 Es KSMI LA Donaldville 1375 FMc ND Tr WARE OH Circleville 677 BE12 MN	
99.50 Es WMS GA Douglas 2250 JJe2 CA Tr WMYK FL St Petersburg 982 Gha TX MS WSGY DC Washington 1382 FMc ND Au WKDO KY Henderson 567 JJe2 MN		102.30 Es WPTM NC Roanoke Rapid 1479 JPi NM Tr WLRB KY Louisville 671 BE12 MN Au WMSR VT St Albans 666 RBr NY		105.10 Es KSTF MO St Joseph 1465 JJe2 CA Tr WMSD FL Orlando 1846 Gha TX MS WYOR FL Coral Gables 1147 RSe TX Au WSDM OH Salem 685 JJe2 MN	

FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC	FREQ/PR CALL LOCATION	MILES DXER-LOC
105.30 Es WBEV GA Macon 1418 RBr NY Tr WMSL LA Slidell 837 RBr NY MS KXKA TX Dallas 1098 FMc ND Au WORS PA Philadelphia 611 RBr NY		106.30 Es KTON TX Belton 1357 JPi CA Tr WNDY IL Crawfordsvill 534 BE12 MN MS KGRN TX Hereford 1183 JJe2 CA Au KVMQ NY Cheyenne 949 RBr NY		107.30 Es WABA FL St Petersburg 1787 FMc2 ND Tr WARS SC Anderson 1001 Gha TX MS WABA FL St Petersburg 1091 PSe DN Au WEDL OH Elyria 613 JJe2 MN	
105.50 Es WRRR VA Tappanrock 1438 FMc ND Tr WMLL IN Washington 976 FMc ND MS WSGT TN Sparta 739 JJe2 MN Au WKEZ OH Sylva 280 ABo IL		106.50 Es WSPF NC New Bern 1552 FMc ND Tr WMLL IN Washington 976 FMc ND MS WSGT TN Sparta 739 JJe2 MN Au WDLB WI Marshfield 591 FMc ND		107.50 Es WBYD PA Boyertown 1506 Gha TX Tr WMDQ SC St George 959 RBr CA MS KNDK TX Ft Worth 1298 SCb DN Au KDLB WI Marshfield 591 FMc ND	
105.70 Es KROB TX Houston 1506 JPi CA Tr WMLL IN Washington 976 FMc ND MS WSGT TN Sparta 739 JJe2 MN Au KHCX TX Houston 1065 JJe2 MN		106.70 Es WVRV NY New York 1448 FMc ND Tr WMLL IN Washington 976 FMc ND MS WMLL IN Washington 976 FMc ND Au KAZY CO Denver 696 JJe2 MN		107.70 Es WSNP NY Albany 1656 Pdy TX Tr WMLL IN Washington 976 FMc ND MS WMLL IN Washington 976 FMc ND Au KKSJ MO St Louis 661 FMc2 ND	
105.90 Es XHGU CHI Juarez 1825 FMc2 CA Tr WMLL IN Washington 976 FMc ND MS WMLL IN Washington 976 FMc ND Au KBIPI CO Denver 696 JJe2 MN		106.90 Es KVRD TX Conroe 1488 JPi CA Tr WMLL IN Washington 976 FMc ND MS WMLL IN Washington 976 FMc ND Au KBIPI CO Denver 696 JJe2 MN		107.90 Es WMLL IN Washington 976 FMc ND Tr WMLL IN Washington 976 FMc ND MS WMLL IN Washington 976 FMc ND Au KBIPI CO Denver 696 JJe2 MN	

STATES STATS

USA				CANADA				MEXICO			
STATE	# -DXER	# -DXER	# -DXER	PROV	# -DXER	# -DXER	# -DXER	STATE	# -DXER	# -DXER	# -DXER
AL	54-TMc	46-JEb	46-JEb	AT	18-JJe2	15-JPi	15-JPi	AGU	1-JPi	0-NONE	0-NONE
AK	11-JJe3	0-NONE	0-NONE	BC	17-JJe2	7-JJe2	7-JJe2	BCN	10-FMc2	9-JPi1	9-JPi1
AZ	29-FMc	26-DBu	26-DBu	MB	15-FMc	9-FMc2	9-FMc2	CHI	6-JPi	6-FMc	6-FMc
AR	65-DBd	61-VSe	61-VSe	ND	3-FMc	1-FMc2	1-FMc2	COA	6-JPi1	2-JJe2	2-JJe2
CA	245-JJe2	182-FMc	182-FMc	NF	9-FMc	8-DN1	8-DN1	DF	21-TMc	21-JPi	21-JPi
CO	53-JJe2	44-TMc	44-TMc					BDT	7-JPi	2-TMc	2-TMc
CT	43-MBu	35-JFe	35-JFe								
DE	11-SMc	10-DBu	10-DBu								
FL	122-DBu	84-FMc	84-FMc								
GA	52-DBu	52-BE12	52-BE12								
HI	0-NONE	0-NONE	0-NONE								
ID	22-DBu	13-RSe	13-RSe								
IL	149-RSt	15-BE12	15-BE12								
IN	146-RSt	112-DBu	112-DBu								
IA	90-JEb	69-BE12	69-BE12								
KS	40-JJe2	24-JJe2	24-JJe2								
KY	67-RSt	33-DBu	33-DBu								
LA	53-RSe	45-BE12	45-BE12								
ME	29-RSt2	10-JEb	10-JEb								
MD	42-DBu	41-JFe	41-JFe								
MA	84-RSt2	67-MBu	67-MBu								
MI	139-FMc	114-RSt	114-RSt								
MN	120-JEb	103-BE12	103-BE12								
MS	64-TMc	36-FMc	36-FMc								
MT	19-JPi	15-JJe2	15-JJe2								
NE	40-JJe2	24-JJe2	24-JJe2								
NV	15-FMc	14-DBu	14-DBu								
NH	20-RSt2	7-JEb	7-JEb								
NJ	60-JFe	55-RSe	55-RSe								
NC	82-DBu	48-FMc	48-FMc								
ND	26-FMc	28-FMc2	28-FMc2								
OH	181-RSt	177-FMc	177-FMc								
OK	82-DBu	48-FMc	48-FMc								
OR	33-JPi	18-FMc	18-FMc								
PA	128-DN1	101-FMc	101-FMc								
RI	11-RSt2	11-VSe	11-VSe								
SC	38-DBu	35-JEb	35-JEb								
SD	26-FMc	28-FMc2	28-FMc2								
TN	93-JPi	82-FMc	82-FMc								
TX	211-RSe	143-FMc	143-FMc								
UT	19-DBu	17-RSe	17-RSe								
VT	11-RSt2	11-VSe	11-VSe								
VA	45-DBu	41-JEb	41-JEb								
WA	26-JJe2	38-FMc2	38-FMc2								
WI	33-FMc	29-RSt	29-RSt								
WV	123-BE12	115-JEb	115-JEb								
WY	13-JJe2	13-TMc	13-TMc								
DC	13-SMc	13-DN1	13-DN1								

FOREIGN

COUNTRY	# -DXER	# -DXER	# -DXER
CUBA	1-KS1	1-JFe	1-JFe
BERMUDA	2-FMc	2-DN1	2-DN1
GUATEMALA	1-KS1	0-NONE	0-NONE
JAMAICA	2-JPi	1-TMc	1-TMc
PUERTO RICO	1-DN1	1-JFe	1-JFe

KEY TO ALL-TIME FM DISTANCE/STATS DXERS INITIAL/NAME/LOCATION

ABO	Andy Bolin	IL Charleston	DBu	Danny Buntin	OK Stillwater	FMc	Frank Merrill	MI Milan
AM1	Alan Michalek	MA Springfield	DMo	Dennis Moe	IA Ansgar	FMc2	Frank Merrill	OH Toledo
BE1	Bruce Elving	MN Adolf	Dni	David Nieman	NY Armon	FMc	Fred Nordquist	NY Clay
BE12	Bruce Elving	MN Duluth	DGD	David G'Dell	AR Little Rock	Gha	Glenn Hauser	TX Von Gray
BE13	Bruce Elving	NE Kearney	Dde	Daniel Dettling	PA Broomall	Gha2	Glenn Hauser	OK Enid
Chb	C. Howington	OH Uniontown	FAC	Frank Aden	OH Benc	Jay	Jim Ayers	TX McFreesboro
DBr	Dave Brumfield	IN Muncie	FMc	Fred McCormack	ND Des Lacs	JDC	John Combs	FL Orlando
			FMc2	Fred McCormack	ND Fargo			

Jeb	John Ebeling	WA Bloomington	YBU	Mike Bugaj	CT Enfield	RWB	Richard Wood	LA Baton Rouge
Jeb2	John Ebeling	WA Bloomington	ND1	Nell Dickenson	ND Brantford	RWB2	Richard Wood	LA Baton Rouge
JFe	Joseph Fela	NJ S. Plainfield	PDY	Fat Dyer	TX San Antonio	SCN	Sam Crenkos	LA Baton Rouge
JJe	John Jefferson	CA Oceanside	PSA	Peter Sawatzky	CA Waterloo	SSR	Stu Strade	LA Baton Rouge
JJe2	John Jefferson	CA Oceanside	RBR	Russ Brown	MI St. Joseph	SRE	St. Remington	LA Baton Rouge
JJe3	John Jefferson	AK Anchorage	RCo	Robert Cochen	OK Oklahoma City	STO	Steve Toaffe	LA Baton Rouge
JP1	Jim Pizzi	NM Lovington	RLB	Ron LeBlanc	LA Warner	Swe	Steve West	LA Baton Rouge
JP11	Jim Pizzi	CA Oceanside	RSa	Rick Sanford	TX Burnett	Tal	Ted Fleissacker	LA Baton Rouge
JP12	Jim Pizzi	CA Santa Maria	RSc	Bob Schweitzer	NJ E. Brunswick	TMc	Tim McVey	LA Baton Rouge
JSB	Joseph Smith	NY Johnson City	RSE	Robert Seybold	NY Dunkirk	VEA	Vernon Sator	LA Baton Rouge
KS1	Ken Simon	FL Lake Worth	RSt	Ralph Strobel	IN Muncie	WB1	Waldo Bishop	LA Baton Rouge
LVo	Larry Vogt	VA Springfield	RSt2	R. Steinberger	MA Hudson			

Bob Seybold
Bennett Rd. #2
Dunkirk, NY 14048

July 1984

TV STATISTICS

DXer	LOCATION	TOTAL	UHF	XLTR	ES	AU	YB	as of	MS
Bob Seybold	- NY Dunkirk	915	436	107	194	6	50	6/84	30
Bill Draeb	- WI Kewaunee	887	365	101	190	1	53	3/84	113
Don Ruland	- WI Kenosha	525	260	36	91		71	3/84	31
Paul Gaines	- MI Detroit	527	249	23	81		73	4/84	28
Marvin Shults	- IL Toulon	492	203	27	123		65	1/80	26
Tom Yingling	- MD Baltimore	460	228	44	185		70		12
Geo. Rogers	- GA Chickamauga	425	83	3	249		80	3/84	7
Jim Pizzi	- NM Lovington	412	160	99	153		81	12/83	14
Robert Kramer	- IL Chicago	388	160	10	90			8/80	30
Fred McCormick	- ND Fargo	394	81	105	113	2	74		1
"	- ND Des Lacs	373	28	31	213		64		45
Mike Hollis	- AL Enterprise	371	175	11	75		80	5/84	13
Nate Ely	- WI Madison	315	180	33	35			2/84	2
Frank Wheeler	- PA Erie	289	61	1	122	2	55		5
Mike Lapinski	- NY Jamestown	279	202	44	15				
Richard Reese	- PA Jersey Shr.	262	45	7	152		79	5/83	28
Fred Nordquist	- NY Clay	239	102	11	70		69	7/83	3
Alan Michalek	- MA Springfield	216	64	6	101			4/84	
Saul Chernos	- ON Toronto	161	6		94		76	3/83	7
"	- ON Brunt River	60	23		12		79	3/83	
Steve Sprachman	- NY Seaford	154	84						
Mike Hogan	- IL Burnham	168	88	1	42		73	6/84	
Ron Purdue	- MN Byron	130	58	22	26		81	5/83	
Bob Schweitzer	- NJ E. Bruns.	156	103	14	4		76		
Mike Cunningham	- WV Harrisv.	79	37		8		83	3/84	
Roy Barstow	- MA Teaticket	287	145	27	76	1		4/84	4

Some of Don Ruland's personal best:

WLB-3	Jackson MS	trops	730 miles
WALA-10	Mobile AL	"	830 miles
WMAH-19	Biloxi MS	"	850 miles
W39AB	Greenv. TN	"	510 miles
CERN-3	Edmonton AT	E-skip	1430 miles
WTVN-6	Columbus OH	MS	320 miles shortest MS

Some of Nate Ely's personal best:

KBCI-2	Boise ID	E-skip	1360 miles
KAD-4	"	"	" miles longest
WFMJ-2	Greensboro NC	"	715 miles shortest
KTTX-39	Dallas TX	trops	820 miles
KXTA-21	"	"	" miles longest UHF
WTAJ-10	Altoona PA	trops	590 miles longest VHF

That's it for this time. Let's see some updates of your totals soon. Also, see you at the WTPDA convention in Jamestown, NY. Let's see you there.....

73's Bob

FM NEWS

Bruce F. Elving, Ph.D., Editor
4515 Avenue "E"
Kearney NE 68847

Stereo Stations (\$)

GA Carthage WCCV *91.7
IN Covington WFOF *90.3 B (Nat'l Black Net.)
IA Iowa City KRUI *89.7 S (AP Network news)
TX Seabrook KZRO 92.1
UT Roy KRGO-FM 107.9
PR Mayaguez WAEI-FM 96.1 m, duplicates
WZNT 93.7 San Juan [Music Network]
VI Charlotte Amalie WBSN 97.9 r, Satellite /

New FM Stations Granted

AK Juneau KTKU 105.1 3800 h.v.; minus 1060'
FL Miami 96.5 100000 h.v.; 920'-initial decision, subject to reversal
IN New Carlisle WLPZ 102.3 3000 h.v.; 160'
IN Petersburg WFOV 102.3 3000 h.v.; 300'
KS Topeka *88.3 35000 h.v.; 240', Stereo, g-Quality Public Broadcasting
MN Ada KHJE 106.3 3000 h.v.; 275'
MN North Mankato KDGO 96.7 3000 h.v.; 300'
NV Carson City KNSS 98.1 5000 h.v.; 2670'
NV Gardnerville-Minden 99.3 3000 h.v.; 730'
OK Ponca City 100.1 KIXR 3000 h.v.; 300'
OR Enterprise 92.1 3000 h.v.; 650'
PA Jersey Shore WJSA 93.5 3000 h.v.; 145', g
SC Ravenel WGOX 101.7 3000 h.v.; 300'
TX Carrizo Springs KONG 93.5 3000 h.v.; 300'

SCA (67 kHz)

IL Urbana WILL-FM 1FX (prominent data noise behind talking farm news—more prominent than on other stations having the IL Farm Bureau SCA in IL, IN and IA). WILL-TV, ch. 12 confirmed as having a talking book SCA at 67 kHz.
IN Danville WGRB 107.1 1X, adds Indianapolis to its hourly ID, no nonID or slogan in use
IN Indianapolis WAJC *104.5 t talking book
IN Kendallville WBTV 93.3 t music, still m on main carrier
IN Plainfield WXIR 98.3 1X (data noise)
IA Iowa City KSUI *81.9 t slogan
KY Brandenburg WMMG-FM 93.5 1TM (main carrier or AM affiliate audio); K90 news on main carrier
KY Elizabethton WQXE 100.1 t ABC networks
MI Greenville WPLB-FM 107.3 music
MI Holland WKLO 94.5 no SCA; strict nonID: 94-KLO; in fact, I wonder if calls ever correctly given, even at the top of the hour?
MI Coldwater WNNW 98.5 no SCA (had music)
MI Jackson WJXD 106.1 1X
NE Crookston KINI *96.1 interesting SCA with music and talk to people in rest homes, daily 11 a.m. to 1 p.m. CDT, with announcement at 11 a.m. on main carrier to people in rest homes to turn on your "special receivers." Main carrier mainly K, not re, uses K-96 (not strict)
IA Des Moines KMGK 93.3 1X

Formats/Networks

AL Huntsville WAHR 99.1 kr, "Radio-99"
AL Scottsboro WKEA-FM 98.3 k, "K-98"
CA Santa Monica KSRR 103.1 rock
GA Columbus WVOC 102.9 RKO network
IL Alledo WRMJ 102.3 M (utual)
IL Clinton WHOW-FM 95.9 b (beautiful music)
IL Danville WIAI 98.1 UPI news
IL East Moline WLLR 101.3 no Mutual
IL Galesburg WAAG 94.9 S (AP news), no nonID, t FSCA (same as WILL-FM's, except data noise much less prominent)
IL Pekin WGLD 95.3 NBC tG SCA (Moody Radio Network, sponsored by "Central IL Radio Fellowship")
IL Streator WSTQ 97.7 rock

KS Hays KHAZ 99.5 k (not on air yet)
LA Baton Rouge WQXY 100.7 r, dropping b
LA Tioga KICY 98.3 (rock)
KY Fort Knox WKKK 105.5 r (hits), no nonID
MI Birmingham WMLC 94.7 RKO (from Y)
MI Detroit WDRQ 93.1 UPI (from R)
MO Knob Noster KLUX 105.5 k (country), not s
OH Bryan WBNO 100.9 m
OH Napoleon WPAF-FM 93.1 b, "Easy-93"
OH Ashboro WRLT 92.3 rock, "Lite-92"
OH Lima WIMT 102.1 i (ABC Information), still T-102
SD Mitchell KQRN 107.3 Mutual, Q-107 (not TN Manchester WMSR-FM 99.7 b
TX Alvin KACC *91.3 rock
TX Cameron KCRM 101.7 k
TX Childress KQAI 95.9 r
TX Houston KTSU *90.9 no B (no network)
KLTR 93.7 no O (except perhaps for commercials, which don't count here)
PR Aguadilla WIVA 100.3 no English
PR Manati WMLD 96.9 mono, g (soul)
PR Ponce WIOC 105.1 i (atin) (same format as WIOA 97.5 Mayaguez and WIOB 99.9 San Juan)
BWI Anguilla, Thones 100.3 said to be 1000 w, mono, gospel
Call Letters

Call Letters

AK Soldotna 101.7 KENY
AZ Clifton 95.3 KNAI—calls assumed, from incomplete data
AZ Lake Havasu City 105.1 KNDD
AR Texarkana 107.1 KTVN (x-KADO-FM)
CO Grand Junction 92.3 KVEE (KREX-FM; affects 17 translators in CO and UT)
FL Daytona Beach 101.9 WCFI (WDOQ)
FL Sebring 105.5 WCAC (WSKP)
FL Tampa *90.5 WECH
IL Granite City 106.5 KWK*-FM (KWK-FM)
IL Peoria 105.7 WWCT (never changed to WOTF)
IN Bloomington 92.3 WTTT (WGTC)
IN Vevay 95.9 WCVK (WAVV)
KS Garden City 97.3 KJQJ (KBUF-FM; still using old calls and "97-Country" nonID; has Satellite Music Network for music, news)
KY Louisville 106.9 WVEZ (not to go to WRKA), staying beautiful
KY St. Matthews 103.1 WRKA (not to go to WVEZ), m
LA Shreveport 105.3 WLTS, r, "Lights"
LA Vero Beach 92.7 WBOJ
MO Seligman 95.3 KHHC
NE Columbus 101.1 KLIR (KDXI), still using old calls as of 7-3-84, but "FM-101" now strictly used, except on the hourly ID
NE Imperial 103.1 KEI
NY Canton *96.7 WJGT (WSLU)
NC Durham 107.1 WFXC (WDBS)
OK Ardmore 92.1 KEBQ (KELS)
OR Cave Junction 102.7 KBGG (KIVR-FM)
OR The Dalles 97.7 KMCO
RI Block Island 99.3 WITQ
SC Goose Creek 94.3 WLNH (WBXJ), rock
SC North Charleston *90.7 WYFH
SC Ridgeland 104.9 WXXY*-FM
TX El Paso *88.5 KXCR
TX Home 94.3 KHRN
VT Brattleboro 96.7 WTSA*-FM (WMMJ)
VA Warrenton 107.7 WMJR (WWWK)
WA East Wenatchee 97.7 KYSN (KTRW); also affects three translators
WI Reedsburg 104.9 WNNF (WROB-FM)

Facilities to be Changed
AR Mountain Home KGH 105.5 1700 h.v.; 415'
CA Oakhurst KAAT 107.1 280 h.v. (1070')
CT Monroe WMNR *88.1 11000 h.v.; 240'
FL Fort Myers WSPF *90.1 815' (100000 h.v.)
FL Panama City WKGC-FM *90.7 100000 h.v. (340')
GA Atlanta WPCB 94.9 970' (39000 h.v.)
GA Brunswick WGG 100.7 100000 h.v.; 450'
GA Statesboro WGGC *91.9 (from 107.7) 1000 h.v.; 150'
IN Franklin WFCI *89.5 1000 (h); 140'
KS Phillipsburg KKAN-FM 95.3 150' (3000 h.v.)
LA Houma KCIL 107.5 (from 107.1) 100000 h.v.; 855'
MI Fremont WSHN-FM 100.1 2000 h.v.; 355'
MI Greenville WPLB-FM 107.3 450' (50000 h.v.)
MI Holland WYXX 96.1 20000 h.v.; 500', reduces coverage
MI Tawas City WKJC 99.3 (from 103.9—although Mike Dornier claims it is to go to 104.7 as a new Class A on a B/C channel)
MN St. Peter KSCG *90.5 75000 h.v.; 710'—expects to be on the air Aug., 1984, as is to be WIRR *90.9 Virginia-Hibbing MN.
NE Omaha K285-104.9 (KBWH Blair t—not K288C 105.5; 104.9 is close on dial to local KESY-FM 104.5 Omaha) On air!
NY Southampton WSBH 95.3 26000 h.v. (370')
NC Wilson WXY 108.1 89000 h.v.; 1370' (15000)
OH Alliance WDJQ 92.5 50000 h.v.; directional / OH Beavercreek WYMF-FM 103.9 1500 h.v.; 405'
TX Conroe KJQJ 106.9 1230' (100000 h.v.)
TX Giddings KGID 101.7 (1800 h.v.)
TX Houston KMJQ 102.1 (from Clear Lake City—happened in 1983, even though " " ceased to exist as a political unit in 1963!)
WI Ladysmith WLDY-FM 92.7 1700 h.v.; 390'
WI Milwaukee WBTT 97.3 15500 h.v. (910')
WI Rhineland WXPB *91.7 82000 h.v. (380')
PR Roosevelt Roads AFCE *92.9 (x 90.5), \$, b
PR San Juan AFCE *103.1 (from 90.5)

Slogans, nonIDs

DC Washington WDDC-FM 101.1 back to DC-101
IL Des Plaines WYEN 106.7 no nonID
IL Farmer City WZRO 98.3 Z-98
IN Anderson WLNH 97.9 no nonID
IN Covington WVWV 103.1 FM-103
IN Indianapolis WXTZ 103.1 no nonID
IN Lafayette WASK-FM 105.3 K-105
IA Grundy Center KGCI 97.7 FM-98, m
KY Jeffersonville WJYL 101.7 FM-101 (very strict—calls not even heard on hour—I sent one of my famous blasting postcards to them; now soul music, not rock)
KY Louisville WLRS 102.3 no nonID
MD Baltimore WLIF 101.9 Life
MI Flint WCRZ 107.9 Cars-108, m, no network
MS Kosciusko WKOZ-FM 105.1 Stereo-105, still k
NM Farmington KRAZ 96.9 FM-96
NC Asheville WRLX 99.9 FM-99.9
NC Kannapolis WJZR 99.7 Z-100
PA Philadelphia WYSP 94.1 94-YSP
TN Nashville WLAC-FM 105.9 no nonID; uses 106-WLAC-FM

Deletion

UT Manté KSME *90.7
Multi-City Identifications in Use
IN Elkhart WVEP *88.1 adds South Bend
IN Evansville WNNI *88.3 adds Henderson-Owensboro (KY)
IA Ames KEZT 104.1 adds Des Moines, no nonID
MI Jackson WIBM 94.1 adds Lansing, TX SCA
NC High Point WGLD 100.3 adds Greensboro-Winston Salem
PR Aguadilla WTPM 92.9 adds Mayaguez, bg
PR Guayama WSRA 106.9 adds San Juan, b
PR Fajardo WDOY 96.5 adds San Juan

FCC-FM
Off Air and Not DX Ready
IA Des Moines K269AC*101.7 (KFGO-FM)
IA Eldridge K274AA*102.7 (KUNH)
NE Aurora KIAE 103.1 (left recorded message
with them; they haven't called back)
VI Charlotte Amalie WSTT 101.1

INDIANA COUNTIES GOING ON EASTERN
DAYLIGHT TIME (in addition to those shown on
the FM Atlas): Clark, Dearborn, Floyd

660 [daytime] Omaha (now KCRO, g)... In the army, he hung around PXes and noted that the GIs kept playing the same records. Even the waitress would play the same ones after closing. When he returned home after service, he persuaded his father to mortgage the successful family farm to buy KOWH, which was for sale. The station became an immense success, beating out WOW and KFAB. WTX, meanwhile, was a founding classical music station on 1450. Storz bought it, and wondered if his format would work in the large cosmopolitan, multi-ethnic market that is New Orleans? Well, I was 14 when Storz came to town in 1953. The station was an immediate sensation. Popular music 24 hours a day, remotes, incredible cash give-aways—it was top 40 at its finest. In 1958 Storz bought a weakened independent on 690, WVEZ, transferred the WTX call to it and built the station up to 10,000 watts. For almost 25 years WTX was No. 1—its closest competition, WNOE 1060, never able to beat it. Many other competitors gave up—WJBW, WDSU, WSMB, WNNR, WIXO (FM), WRNO (FM). Recently, WTX, the flagship of Storz's 6-station fleet and nationally celebrated as the granddaddy of all top 40 stations was sold. The new owner, Price Custus of New York City, is planning format changes, and the local newspaper writes of large staff defections and low morale. What happened? Simply this—FM beat the hell out of it. First, WTX slipped to second; then third, then somewhere down near 6th on Arbitron's list. By August, 1983, it was no longer in the top ten. Surely, Bruce, this is a watershed in the story of radio. WTX—nationally known as the first of the real top 40ers, the format that saved the radio medium in the glory days of television growth, is gone. At least, the WTX we knew. And FM did it in... WABC New York was a marvel, too, but it—and WLS Chicago—were inspired by WTX!

Other news from Mike: ("Public Radio in Mississippi" no longer identifies each of its stations, but only uses the network title and its Jackson address, with live weather announcements. I assume they have FCC authorization. Strange—I hope this is only a temporary arrangement, but knowing the Fowler FCC, I would not be surprised with any rule coming out of it that may make call letters announcing and even having calls unnecessary. See earlier reports on WJYL and WKLQ, previous page. If this is the case, I think we as DXers should get together and protest to the FCC and to the individual stations—perhaps a good idea for ANARC to take up at its convention.

Mike was disappointed that only about 12 high power allotments were made in the proposed FM channel assignments, the rest being Class A. Mike claims that both WKJC 103.9 Tawas City MI and KERG 100.1 Garberville CA are being given new assignments—WKJC to 104.7A and KERG to 100.3 C-2. I have seen nothing official on either of these, with FCC microfiche saying WKJC is going to 99.3, so that is where I am placing it for now. With WKJC moving, 103.9A is available at Sebawaing MI. KERG wants improved coverage in its mountainous area; the present Pratt Mountain transmitter site will be retained.

KURU *89.1 San Antonio is delayed in coming on the air, after a 7-year effort by local groups failed to come up with the money to put the station on the air, according to an article sent by David Curvin. Western Public Radio, San Francisco, is sending personnel to help, as they have done in Denver, where KUVO *89.3 is still waiting to sign on. And Dave kindly sent material on a TV or FM-SCA use involving changing road signs, with both commercial and public service messages possible.

WVIS 106.1 in the VT's owner says "My business is not doing that well due to the fact of lots of increased competition by 14 other stations from nearby islands, shoppers and TV stations selling spots at \$10, with rate-cutting. There is little if any national business placed here. I'm considering increasing power to 20000."

An interesting program, "The Folk Sampler," out of Sioam Springs AR, is heard on a variety of stations, including KUAC Fairbanks, KPBS San Diego, WNPR Hartford, WBEZ, WIUM in IL, WIAN Ind., KANU, KANZ in KS, WFPL Louisville, WMEH, etc. in ME, WBVL Twin Lake MI, WSKG Binghamton NY, WCBE Columbus, WYPR Windsor VT, WRFK Richmond, WE may share mailing lists in the future.

WKCR *89.9 New York got a new transmitter, helping the SCA to sound much better. In-Touch Networks, on WKCR's SCA, however, has filed on top of WKCR and wants its facility for itself. An SCA monster gobbling up the main station?

An article in "SCA: Radio Subcarrier Report" mentions a plan by Atari and Activision to distribute video games via SCA. The first two test markets will be Steubenville OH and Utica NY, said to be "hotbeds of video game activity."

Back to AM radio briefly, Detroit's WXYZ is being sold by ABC to its general manager, Mr. Fritz. (First part of article sent by Paul Gaines I misplaced, so I don't have his first name.) Sale does not involve ABC's WRIF 101.1. WXYZ has declined to sixth with a 5 share among Detroit's 30-station stations. Station had not been profitable recently probably due to ABC overhead problems and FM. It is famous as the station that originated national broadcasts of *The Lone Ranger*, *The Green Hornet* and *Challenge of the Yukon*. Paul points out that WDET *101.9 uses the studios that

READERS' REPORTS

There is less station news this month because of an earlier deadline, because of going on vacation. The new "FM Atlas" should be ready about the time you read this; its larger-than-ever size is going to take a little longer to print.

Mike Dorner, in talking about the move of WAIL to WLTS 105.3 Slidell as a rocker, says that they hired Robert Mitchum, the 18-year program director of WTX (AM) in the same capacity and as morning drive man. "This is a guy who had little use for FM 12 years ago! I know your interest is FM, but the following deserves a space in your column. WTX 690 New Orleans is the station that made Todd Storz famous. He came down to

New Orleans with his top-40 format (local news at :55) from a successful stint with KOWH. New Orleans around PXes and noted that the GIs kept playing the same records. Even the waitress would play the same ones after closing. When he returned home after service, he persuaded his father to mortgage the successful family farm to buy KOWH, which was for sale. The station became an immense success, beating out WOW and KFAB. WTX, meanwhile, was a founding classical music station on 1450. Storz bought it, and wondered if his format would work in the large cosmopolitan, multi-ethnic market that is New Orleans? Well, I was 14 when Storz came to town in 1953. The station was an immediate sensation. Popular music 24 hours a day, remotes, incredible cash give-aways—it was top 40 at its finest. In 1958 Storz bought a weakened independent on 690, WVEZ, transferred the WTX call to it and built the station up to 10,000 watts. For almost 25 years WTX was No. 1—its closest competition, WNOE 1060, never able to beat it. Many other competitors gave up—WJBW, WDSU, WSMB, WNNR, WIXO (FM), WRNO (FM). Recently, WTX, the flagship of Storz's 6-station fleet and nationally celebrated as the granddaddy of all top 40 stations was sold. The new owner, Price Custus of New York City, is planning format changes, and the local newspaper writes of large staff defections and low morale. What happened? Simply this—FM beat the hell out of it. First, WTX slipped to second; then third, then somewhere down near 6th on Arbitron's list. By August, 1983, it was no longer in the top ten. Surely, Bruce, this is a watershed in the story of radio. WTX—nationally known as the first of the real top 40ers, the format that saved the radio medium in the glory days of television growth, is gone. At least, the WTX we knew. And FM did it in... WABC New York was a marvel, too, but it—and WLS Chicago—were inspired by WTX!

WXYZ (AM) had, until they moved to Broadcast House. The NBC Blue Network also broadcast from there. Paul's art is included to show the building, with Wayne State University broadcasting from the west and north sides of the building. It is on Woodward Ave., between downtown and Grand Boulevard. When I was in Detroit, at WGPR, they pointed with pride at the building, and said, they too, broadcast from that building.

Regarding WVCA 104.9 Gloucester MA, still c, still mono, but adding vertical polarization—the U. S. Court of Appeals told the FCC to reconsider the denial of license renewal of WVCA, which is a one-man FM station owned by Simon Geller. So he may win yet, comments R. H. Perrin.

Peter Nolan sent along a complete listing of Transtar Radio Networks, from which some of the "i-" and "k-" format listings were derived on the previous page. Some of those stations (or possibly most of them) also carry Transtar news, which I do not list as a network, as it is primarily a satellite-delivered music service.

John Clemmer says KBQC 93.5 Bettendorf IA still not on; was supposed to be on months ago. Waterloo's KFMW 107.9 still does not have the signal they had before their tower fell last November in an ice storm; obviously, not on with full power or antenna height. PA Philly, WXTU 92.5 is indeed country, ex soul; this from about four different sources including Billboard. [I heard it myself, John, via skip, and confirm k on it—but it's a very mild form of country, almost easy-listeningish, from what I heard.]

Pete Nolan again: "For the sake of accuracy, Eric Norberg was at KEX/KQFM (now KKRZ) in Portland, not KGW/KINK. He was program director, is general manager and part owner at KWIP (AM) near Portland, and his AM stereo comments in Broadcasting (I thought) had a good deal of validity. I don't think Eric—or anyone else—is proposing that AM stereo will enable AM fidelity to obviate that of FM—just that it may help AM stations be more competitive. There's plenty of room for stations on both bands to attract listeners and make money. While Al Germond's points were also well taken, the bit about 'sick garbage' and this 'yo-yo' turns my stomach—that sort of petty shot doesn't help anyone."

Contributors—July VUD: Frank Aden, Jr., Portland OR (newly rejoined member—welcome back!); Robert Baker, Humboldt IA; Daniel Bello, New York NY; Phil Boersma, Spring Lake MI; Jon Brabban, Savannah IL; Jim Bucher, Washington DC; Bill Coleman, Jr., Rocky Mount NC; John F. Combs, Orlando FL; Ernest R. Cooper, Provincetown MA; Geo. Durrin, Demariscotta ME; Dennis Ward, KDCR Sioux Center IA; John Ebeling, Bloomington MN; Larry G. Fuss, Jackson GA; Paul L. Gaines, Detroit MI; Lenny Goldberg, Eugene OR; William E. Hertwig, Jr., Yonkers NY; Casey Jones, p.d., KGMJ Eagle CO; Jarrell Kautz, Columbia ME; Nick Lombardi, Atlanta GA, who says Gwinnett County GA has two n's; Fred McCormack, Fargo ND; Robert McKinney, Clinton IL; Peter A. Nolan, Galveston TX; Fred Nordquist, Clay NY (with a new computerized FM Scoreboard for his column—support it, he says WYYY 94.5 Syracuse now No. 1 in ratings); Rod J. O'Connor, Kodiak AK; Walter Patton, Willowdale, Ont. (supplier of most of the Canada news); Jim Pizzi, Lovington NM; Richard Reese, Jersey Shore PA; Eddie Scott, Toccoa Falls GA; Ron Seymour, Pittsburgh PA; Don Waltman, Louisiana MO; Dr. Richard E. Wood, Abita, SAUDI ARABIA. This month: Jose Bahr, Frederikstad VI; Baker J. Clemmer, E. Illinois IL; Dave Curvin, San Antonio TX; Mike Dorner, Metairie LA; Ted Fleischacker, Louisville KY; Mike Flynn, Sioam Springs AR; Gaines; Dean Hannotta, New York NY; Larry Hart, Ingwood CA; Jimmy Laccetti, Doraville GA; Nolan; Richard M. Perrin, Wells ME.

July, Bruce

NORTHERN FM-DX

Saul Chernos
79 Ridge Drive
Toronto Ontario
Canada M4T1B6

August 1984

*After a superb May for Es, June has certainly been quiet on that front. What seems to be my annual mid-June Tropo opening produced some interesting stuff, but, oh, tragedy has struck!! My rotor hath frozen, and guess where? Due north. I'll be OK for Au, but for Es & Tr, well there ain't much north of me. With my luck, the broken rotor means the Es will be back shortly.

*If you're getting New York City on Es in the late hours, check 91.5-91.9 for pirates. KPRC, "Stereo Nine", WHOT, "Music Radio 93" and others all operate there, and quite often, according to DX bulletins and word of mouth. If you can log a 10-watter by Es, you can get pirates

NORTHERN FM DX is for YOU if you if you DX from AK CT HA ID ME MD MA MT NE NH NJ NY ND OR PA RI SD VT WA WY, CANADA and OTHER COUNTRIES. This column has never had reports from the underlined states since I've been editor. Who wants to be "first"? Here are a few reports.....

ERLIE COOPER - 5 ANTHONY STREET - PROVINCETOWN MA 02657

JAN 1984

7 Es

1402 KZIO 102.5 WI Superior Came in suddenly as I was listening to the Metropolitan Opera on local WCRB. KZIO was r UPInx
1513 KBHP 101.1 MN Bemidji local ads
1536 KPNW 97.9 ND Fargo g faded 1545
(This minor opening was a small area in almost a straight line across Minnesota!)

16 Tr

1135 WCMC 93.5 ME Rockland r ads mention of AM affiliate on 1450-WRKID

FEB

14 Tr

0050 WHCN 105.9 CT Hartford network phone-in prgm w/ lcl ID at 0100, lost soon to WIGY-ME

INTERFERENCE PROBLEMS!!!!

Since they strung the TV cable through our street, I've been getting nasty interference on FM setup of the Realistic STA-52 & McIntosh MR-78...like the wx stn on 91.7, Cinemax on 90.3, a TV rock mx stn on 91.3, and HBO on 107.1, plus a few FMs on two freqs - their own, and where the cable has placed them. I didn't subscribe to cable FM; only the TV. They've sent repairmen here to fix the bleeding, but were unsuccessful, saying they'd return in a few days "with their boss"; six weeks later, still no "boss". The FCC Boston & Washington offices have been notified. (go get 'em Ernie, I just had to do the same here due to Hydro leakage killing AM FM TV SW. The FM TV problem disappeared just before the D.O.C. engineer was to come; and since I don't dx AM or SW much in summer, I told the guy to wait.—saul)
I'm back to feeling like myself again after my quadruple coronary by-pass on Feb 29th. But those few weeks after surgery were no picnic! I plan on attending the convention in Jamestown & I hope to see a lot of you there. Have a great E-Skip season! —Ernest.
(glad all went well there, Ernie, and I'm looking forward to seeing you and others at J.NY.—saul)

HARRY HAYES - 9 HENRY STREET - WILKES BARRE PA 18702 EDIT

It's the best MAY ever for skip that I can remember since at least the mid-70s/Early 70s. At least 3 FM inclusive openings (more—saul) so far and it's not even Memorial Day yet; usually, skip begins around Memorial Day. Totals so far: 695, 314 by Es.

MAY 1984

6 Es

1155 KICT 95.1 KS Wichita "Your World Tour Stn"
1159 KANU 91.5 KS Lawrence
1202 KJCK 94.5 KS Junction City
1211 KJLS 103.3 KS Hays may jingles rp
1214 WLBW 97.3 KS Wichita
1224 KPNF 101.1 KS Oberlin
1227 KDCK 95.5 KS Dodge City "95DCK"ex-KGNO
1233 KTRX 95.5 MO Tarkio
1240 KFLM 97.1 NE North Platte
1253 KWIN 97.1 SD Winner

19 Es

1134 KIXS 93.3 TX Killen
1156 WJAD 97.3 GA Bainbridge
20 Tr
6000 WBSB 104.3 MD Baltimore fadey
0025 WEEB 107.9 CT Westport fadey
24 Es
1128 KNEN 94.7 NE Norfolk
1138 KKRC 93.3 ?? is this KMKG?

Radioshack Rabbit Ears w/ Radioshack FM amp for Tr Es; homemade stacked FM quad loop, cut for 104 Mhz., for Ms Au. I use quad-loop with the loop by repositioning it in various places around the house, but the low-band (MORE)→

overload is too much of a nuisance during skip openings, where the low-band is most vital. The quad-loop consists simply of two wooden frames with an inside measurement of 28 1/2 inches stacked, or set apart on four wooden slats, at 13.6 inches. Strung on the inside of each frame is split zip cord, or lamp cord wire with one wire fed to the amp. and RX, and the other a closed loop. I derive my measurements from an article appearing in a 1974 VUD by Bill Smith; that is, your desired Mhz divided into 248 will give you your length of loop sides in inches and your desired Mhz divided into 118 will give you your stacking distance. Thus for 104, this goes into 248 about 2 1/3 times or 28 1/2 inches, and 104 will go into 118; 1 and a fraction over. Using a slide rule (I'm from the old school, heh!) you can easily convert the remainders into exact inches. This is a portable indoor antenna, and with an amp, comes as close to giving "outdoor" results as anything possible. Anyone wanting more information, please write to me.

(Now here's an idea...(THIS IS SAUL NOW, HARRY'S THROUGH)... suppose in each VUD-perhaps in a column form-one WTPDA member can write at length about his system. That includes not only equipment, but location, local topography, local weather patterns of a unique nature. In other words, a real all-inclusive in-depth description. Just food for thought there...saul)

DAVE NIEMAN 12284 NICE ROAD - AKRON NY 14001 Carver TX-11, Pioneer TX-9100, \$Probe9, dipole

MAY 1984

6 Es (MUF 100.9)	19 Es (MUF 107.5)
1224 KMWW 89.1 KS Wichita j \$ 1050	1021 KSBH 88.1 TX Humble g \$ 1270 1275
1226 KHCC 90.1 KS Hutchinson c \$ 1045	1103 KUHF 88.7 TX Houston j\$ (right o/WBFO Buffalo
1229 KZED 93.5 KS Wellington b \$ 1065	1119 KATT 100.5 OK Oklahoma City rp\$ "Rock 100The Cat"
13 Es (MUF 100.1)	1130 KKCC 106.9 OK Clinton r\$ 1170 1115
1500-1700 Es to Canadian Maritimes;	1137 KBXR 97.3 OK Weatherford r\$ (ex-KWEY) 1160
nothing in long enough to positive ID	1156 WFLA 93.3 FL Tampa r\$ "93-FLA-FM" (ex-WOJC)1060
	1158 WQPD 94.3 FL Lake City r\$ -Dave 930

BRUCE ELVING - 4515 AVENUE "E" - KEARNEY NE 68847 CST Time

Lately, skip has hardly left me alone. I'd be at the typewriter, just letting the skip station play as background, not giving them the attention I usually do. I've used info. from the skip in updating my FM Atlas as I type it. (now THAT'S what I call up-to-date! -saul) I'm tentatively planning to go to Jamestown NY. Now, my 1984 Kearney NE DX to date:

MARCH 14, 1984 Tr

KCAY 95.9 KS Russell; KBBE 96.7 KS McPherson... both w/ new calls; the new-to-air KTSD 91.1 SD Reliance which I often use for NPR listening, KDBQ 96.9 KS Pittsburg and KCSC 90.1 OK Edmond-OKC. KSIW 93.5 OK Woodward heard the last day semi-local KEZH NE Hastings was on that freq. KEZH provided no interference; since then KEZH has been on 101.5. KKBS 92.7 OK Guymon in \$; and KWOC 101.1 OK Woodward with legal ID at 0900 CST.

APRIL 11 Es

From 1356-1435, WQDR 94.7 NC Raleigh; WPMR 94.9 VA Roanoke; WBKW 99.5 WV Beckley no \$, SCA not heard, but open carrier suggesting something may have been wrong with its Muzak; WRBS 95.1 MD Baltimore; WQMD 92.7 DE Rehoboth Beach.

MAY 20 Es

KELT 94.5 TX Harlingen mx SCA at 1923.

MAY 31 Es

2104-2044: WPTG 90.3 mono PA Lancaster; WANJ 107.5 WV Wheeling; WBGU 88.1 OH Bowling Green mono; Indiana(new state)came in on WBNI 89.1 and WBCL 90.3 both IN Fort Wayne; also WXTU 92.5 PA Philadelphia with MOR-ish Country.

JUNE 4 Es 1959-2100:

KMZQ 100.5 NV Henderson; KITT 96.3 NV Las Vegas \$ "hard rock" (Brude's term, not the stn's); KRIZ 103.3 CA Santa Barbara w/ calls only; KKNV 102.7 CA Fresno b; and WDUV 103.3 FL Bradenton. Lots of Es lately has had combinations of South FL with NV CA simultaneously...

JUNE 5 Es:

KMET 94.7 CA Los Angeles calls only at 1041; KJYK 94.9 AZ Tucson "K-Joy" & calls at 1145; thus they're not a strict non-Ider; KXCI 91.7 (WHERE ? Saul) \$ at 1159; KXNL w/ calls in SS at 1259 on 94.9 & mentions of Monterrey, Nuevo Leon, Mey-hi-co (SS for Mexico-saul); KRWG 90.7 NM Las Cruces at 1300; KEZG 92.1 AZ Green Valley b at 1315.

JUNE 7 Tr:

MORNING: KEZG 99.1 MN Mankato calls 0910.

JUNE 7 Es:

EVENING: WGUC 90.9 OH Cincinnati took over beautifully at ID time at 1900 o/ a weak KUCV NE Lincoln in a way Mel Wilson would applaud; then WFPB 91.7 WV Beckley 2000 just returning to air w/ new antenna after using temporary one for a year, were asking for reception reports, to which I complied. Also, WAMU 88.5 DC Washington "88-FM" perfect signal also its SCA w/ b.; On SCA WGAY 99.5 DC Wash. gave complete ID & ads. WGAY itself was there, but because of the MUF, it was in more often & sounded better on 88.5 as SCA (huh? did you mix up the freqs?saule)

JUNE 8 Es:

WTSB 89.5 NC New Bern c \$ no apparent NPR affiliation, hrd at 0900; WCEZ 93.5 SC Columbia 0910; WMPR 90.1 MS Jackson mono despite \$ listing at 2029, KAYD 97.5 TX Beaumont 2208; also hrd KKAN 95.3 KS Phillipsburg testing in \$ km music, chirping (telemetry)SCA. (KKAN not Es I assume-saul)

After an exciting May, June has been incredibly awful, and because the VUD is a "family publication", I can't even begin to express how I feel about the June Es. At least the weather's been good, so BURNT RIVER has been less of a DX site and more of a sun-worshipping, fishing and sailboat racing QTH. Today July 1, MUF hit TV-4, so maybe we're due for a change...

MAY 28 Tr

2103 WGBN 94.5 MI Mt Pleasant k wx

31 Es

2138 KDCK 95.5 KS Dodge City "95-DCK" wx

2145 KKNG 92.5 OK Oklahoma City "King, KKNG-FM-9..."

2150 KJCK 94.5 KS Junction City

2152 KHUT 102.9 KS Hutchinson

2153 KAKZ 95.9 KS Derby

2154 KICT 95.1 KS Wichita

2156 KOEZ 92.3 KS Newton

2159 KMWW 89.1 KS Wichita

2203 KANZ 91.1 KS Garden City wx

2208 UNID 92.1 "92-KFM" rp

2211 KRAV 96.5 OK Tulsa "460-KRAV"ph#

2230 KSLS 101.5 KS Liberal "KSLS-101 1/2"

2242 KNID 96.9 OK Enid

2245 KWOC 101.1 OK Woodward "K-101"

2250 KWHW 93.5 OK Altus s

2254 KXXY 96.1 OK Oklahoma City "KXY"

2259 KZBS 98.9 OK Oklahoma City r

2301 KOMX 100.3 TX Pampa

2302 KWGS 89.5 OK Tulsa ment. UofTulsa

2303 KCSC 90.1 OK Edmond

2313 KLAW 101.5 OK Lawton "K-Law"

2315 KATT 100.5 OK Oklahoma City "Cat" r

2325 KJLC 88.5 MO Kansas City

2327 KDAK 92.1 OK Woodward

2332 KBXR 97.3 OK Weatherford (ex KWEY)

JUNE 6 Tr

0136 WJVI 105.7 OH Cleveland "Magic-105.7"

0137 WJZZ 105.9 MI Detroit jazz (prev. Au)

11 Tr

2135 WIXX 101.1 WI Green Bay

2200 WBLV 90.3 MI Twin Lake nx

2231 CBQF- 88.7 PQ Chapeau FF CBC mono

2245 WJIR 100.1 OH Kent "Near-100"

2330 CBCE 97.5 ON Little Current new-to-air

CBC-mono EE // CBCO 105.9 and CBL 740 Toronto

12 Tr

0130 WBNY 91.3 NY Buffalo p Finally an ID!

0140 WJFM 93.7 MI Grand Rapids "93-JFM" wx

0228 WOOS 106.9 OH Canton "Good Rock 107" r wx

0233 WCCC 101.7 PA Linesville r

0243 WWSW 94.5 PA Pittsburgh rm "3WS"

0252 WDSY 107.9 PA Pittsburgh k

0259 WAMO 105.9 PA Pittsburgh ment SPN Network

which I assume Soul B'Cast Net. as soul mx

0320 WKWK 97.3 WV Wheeling wx r "97-WK"

So this closes things till the Sept VUD. I sure hope things improve; notice how SMALLLLLLL the column is. I type what I gets. 73's, saul.

JUNE 12 Tr cont...

0350 WKYE 95.5 PA Johnstown "K-95" r wx

0418 WHOT 101.1 OH Youngstown "Jerry Starr,

at FM 101....." Jerry is a DXer who

has been in a number of DX clubs,

so it was neat to hear him during

a superb Tropo opening. Y'hear that Jerry?

0429 WHTX 96.1 PA Pittsburgh

0458 WOUR 96.9 NY Utica pr

0500 WAMC 90.3 NY Albany

0510 UNID 97.1 RKO r ELT-TC ment. Springfield

and also Burlington VT, and aner. Joked that

he talked too much, which he did. Included

lengthy sportscasts.

0550 CHOM 97.7 PQ Montreal r "ShownFM" EE

0559 WMHT 89.1 NY Schenectady c

0700 WGBH 89.7 MA BOSTON "This is WGBH, Bos-

ton..." w/ freq throw in! Signal Excellent!

12 Ms (doubt Es as none on TV)

1830 WMFE 90.7 FL Orlando "This is WMFE Orlan-

do, FL"

16 Au After this rotor breaks turned due Nth

0005 CBHA 90.5 NS Halifax "Wx for Hfx & vicini-

ty" in my car outside cottage WHILE DRIVING!

0006 CBAF-19 92.3 NS Halifax CBC FF mono in car

0030 WFIT 101.5 PA Pittsburgh g ID on rotor

25 Es

1936 KKAZ 100.7 WY Cheyenne

1938 KPNY 92.1 NE Alliance "The mx source" \$r

1940 KFBQ 97.9 WY Cheyenne QTH TC ID seemed

like KRPQ but may've been 2nd stn or my error

1945 KNEB 94.1 NE Scottsbluff

1950 KMOR 92.9 NE Scottsbluff UPInx

2030 KRQU 102.9 WY Laramie r wx Mtn TC

2032 KCGY 95.1 WY Laramie

2034 KDLY 97.5 WY Lander wx

2042 KGBS 96.1 CO Greeley

2044 KSID 98.7 NE Sidney

2051 KTRS 95.5 WY Casper

2100 KYOU 92.5 CO Greeley k

2109 KAWY 94.5 WY Casper r "KY-94"

2111 KYGO 98.5 CO Denver k

2118 KLOV 102.3 CO Loveland r

2120 KLIN 97.1 NE North Platte

2122 KLMO 104.3 CO Longmont KC Royals AL bb

2123 KBGO 97.3 CO Boulder r

2124 KWTR 93.7 SD Winner rs

2129 KVRB 105.5 CO Sterling

26 Tr 2056 WJUU 102.5 NY Rome rm "U-102-FM"wx

97 WFLA


801 JACKSON • BOX 600 • TAMPA FLORIDA 33601

WJBR

2617 EBRIGHT ROAD
WILMINGTON, DELAWARE 19810

WXTS 98.5

1396 Broad Street, Clifton, N.J. 07013
P.O. BOX 5043



CENTRAL FM DX

August 1984

Ralph Strobel, editor
2300 E. McGalliard Rd.
Muncie, Indiana 47303

John Ebeling - 9209 Vincent Ave. So. - Bloomington, MN 55431

In my opinion, June has not been a very good Es month. Have spent a total of 15 days at the cabin, and all the time I was there I monitored TV Ch. 2 and did not see very much skip. If there was any TV skip, it rarely made it up to the FM band. Report is as follows, with all times CST.

From Prosit, MN:
5/29 tr 1015 93.1 WIMK MI Iron Mountain
5/8 Es 1930 89.3 KCBT TX Dallas
1938 93.3 KIXS TX Killeen
1944 107.5 KBUC TX San Antonio
1958 96.5 KIOU TX Corpus Christi
2000 95.5 KZFM TX Corpus Christi
2006 98.7 KTKN TX Victoria,
b, CNN nx
2008 98.3 KORA TX Bryan, k
2031 97.3 KAJA TX San Antonio,
SCA, k, "KJ-97"
2100 99.9 XHSG COA Piedras
Negras
6/22 tr 0921 99.3 KLOK MN Walker
2140 92.5 CJAX AT Edmonton
2142 96.3 CKRA AT " "K-lite"
2147 100.3 CKRM AT " "
2152 103.9 CISM AT " "Kissin-FM"
2159 90.9 CBK AT " "
2200 91.3 CKUA AT Drumheller
That's it from here for this time, as no more DX to report. Regards, John Ebeling

6/23 tr 0900 101.9 KKRZ ND Fargo, k
1000 90.1 K211?? MN ? KAXE 91.7
Translator not ided on 90.1, but announc-
ed as 101.7 in Brainerd. Freq. change?
1005 99.3 KSTQ MN Alexandria
2200 98.3 K252?? MN ? KBHW 99.5
Translator in International Falls (new)*
* Elving pls note!

From Bloomington, MN:
5/23 Es 2015 91.9*GBJ-1 PQ Chibougemou,
j, French
2026 92.1 CFTI ON Timmins
2030 96.1 CBGJ ON Timmins
2030 90.7 CBON-4 ON Kapuskasing,
French
2100 100.9*CBJ PQ Chicoutimi,
FF, j, c, (no SCMO)
5/31 Es 2100 88.1 WRJA SC Sumter
2100 89.9 WJWJ SC Beaufort
2157 90.7 WFAE NC Charlotte
*Same j program. At 2100, went from j to
c. Got good French ID on tape of GBJ.

Jeff Kadet - Box 20 - Macomb, IL 61455

Equipment: McIntosh MR-78, Stereo Probe 9 up 60 feet.

1/7 Es 1300 CBHA 90.5 NS Halifax
1320 WATV 93.9 ME Lewiston
1326 WKSQ 94.3 ME Ellsworth
1400 C777 93.1 NE Frederickton?
gave ID as "KHJ-FM"
1410 WMMJ 95.7 ME Ellsworth
5/20 Es 2021 KAMZ 93.1 TX El Paso
2024 KWLW 93.9 TX San Angelo
2315 XHAAA 93.1 TA Reynosa
6/1 tr 2337 WKPL 107.1 WI Platteville
6/9 Es 1840 KLYT 88.3 NM Albuquerque
1855 KNAU 88.7 AZ Flagstaff
New Stereo Probe 9 put up on June 1 is twice as high as the old one was (60' vs.
30'). This will be helpful for tr to the NE/E/SE, former poor directions from here.
WCAZ-92.1 is NSP now. Guess the bustling metropolis of Carthage, IL (population
3350), can rest easy knowing they have a 24 hour station. This effectively kills
the best class A frequency here for AN MS. Total now 658. 73.

6/9 Es 2015 KCEP 88.1 NV Las Vegas
2037 KSET 94.7 TX El Paso
2040 KLAQ 95.5 TX El Paso
2052 KCKN 97.1 NM Roswell
6/11 tr 0200 WVNO 106.1 OH Mansfield
0238 WGTZ 92.9 OH Eaton-Dayton
6/12 ms 0512 WRMB 89.3 FL Boynton Beach
6/15 tr 0415 WFFF 105.9 OH Middletown
0421 WBIF 105.5 IN Bedford
6/20 tr 0107 WCMU 89.5 MI Mount Pleasant
Es 1752 WBSN 89.3 ME Bangor, 125w
7/1 tr 0200 KRUI 89.7 IA Iowa City

Ralph Strobel - 2300 E. McGalliard Rd. - Muncie, IN 47303

Equipment: McIntosh MR-78, Stereo Probe 9 up 60 feet.

6/27 ms 0144 WJML 98.9 MI Petoskey, "...JML knows..." previous tr 300
0517 WATV 96.9 FL Jacksonville, "...on Wave-FM. Wed. night..." pr. Es 750
6/29 ms 0010 KZZC 98.9 KS Leavenworth, "...KZ..." previous ms and tr 520
7/4 ms 0202 WQRT 98.9 VT Burlington, "...Q-99..." 650
After considerable thought, I have decided to resign as editor of this column.
I won't be attending the convention this summer in Jamestown, New York. 73, Ralph

SOUTHERN FM DX

August 1984

Danny Buntin, editor
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 10th

ES SLOWS CONSIDERABLY AFTER JUNE 9th

Jim Fizzi, F. O. Box 1778, Lovington, NM 88260 - 5/27 to 6/18 (505) 396-3251
5/27 Es
1823 WTLG 88.3 FL Starke, s/off 1826 1278
1825 WPAP 92.5 FL Panama City, tent. k
1829 WMAH 90.3 MS Biloxi, ID 891
1837 WHOO 96.5 FL Orlando, ID 1359
1839 WAKA 92.3 FL Orlando, promo
1841 WRYO 98.5 FL Crystal River, tent
5/29 tr
1000 KUHF 88.7 TX Houston, ID 515
1000 KRBE 104.1 TX Houston, ID
1004 KQUE 102.9 " " calls
1006 KILT 100.3 " k, "FM-100"
calls 1012
1007 KSRP 96.5 "97-Rock", ads
1017 KGOL 107.5 TX Lake Jackson, g 539
1025 KLCL 101.1 TX Houston, calls 102B
5/31 Es "FM-91.5"
1005 WVEN 91.5 GA Cumming, tent \$, nx, wx
1418 WAZE 92.1 GA Dawson, ment. Albany
1421 WFBH 92.1 east, calls
1430 WRBH 88.3 LA New Orleans, ID 819
1431 WCKW 92.3 LA Laplace 790
1438 WQYK 99.5 FL St. Petersburg, ads, k
1439 WRNO 99.5 LA New Orleans, "the rock"
1440 unID 88.9 east, g, NBN Moody broadcast
"Prime Time America"
1445 WFMO 99.1 MS Pascagoula, calls 896
1451 WKGL 90.7 FL Panama City, nx 1071
1451 WRYO 98.5 RL Crystal River, g 1265
1455 WPAP 92.5 FL Panama City, calls 1071
1457 WMMK 92.1 FL Destin, nx 1015
1500 WUWF 88.1 FL Pensacola, nx 968
1503 WHOO 96.5 FL Orlando, k, tent.
1508 WTBH 97.7 FL Bonifay, ads 1058
1509 WEGM 98.9 FL Tallahassee, ads 1233
1518 WKYD 98.1 AL Andalusia, ads
1520 WRBH 88.3 LA New Orleans, tent
1521 WOOF 99.7 AL Dothan, ads, 12 tv promo
1527 WUFT 89.1 FL Gainesville, 1274
1534 WTLG 88.3 FL Starke, g, s/off 1500 1278
1557 WNCN 88.1 FL Jacksonville, "FM-88", 1300
"Jacksonville's own, UPI nx 1600
6/1 tr
0206 KVIC 95.1 TX Victoria, ID 468
0212 KQUL 103.7 TX Sinton, calls 485
0215 KXXK 106.5 TX Galveston, SS, L 555
0216 K280BP 103.9 TX Big Spring, ID as 117
Love FM99K-99.1 Odessa @0230
0237 KHOC 99.9 TX Waco, calls 368
0239 KWTX 97.5 TX Waco, calls, r
0254 KTON 106.3 Belton, ID 0300 368
6/4 Es
1600 RBPM 88.9 Belize City, Belize, 1400
nx, "FM-89", reggae nx, in til 1630
1602 WPAP 92.5 FL Panama City, tent. FL nx
1606 KHGL 97.7 YUC Merida, SS, \$, m 1200
1608 XHMT 98.5 YUC Merida, SS, ID "Estereo
Hoya, \$, L
1618-1630 SS unIDs 88.5 to 98.5
1630 XHRF 88.1 DF Mexico City, ID in EE
6/4 Es
1632 XEOY 89.7 DF Mexico City, "Estero mil" c
1634 CERC 97.2 " "
1634 XEDA 90.5 "
1634 unID 91.8 s. s. east- mx or cent.
America? SS nx radio, terrible flutter
esp. on 91.7, 91.9, beep tone every minute.
1637 XHLM 96.5 MOR Cuernavaca, \$ 985
1637 XHOM 88.5 MOR Cuernavaca 985
1644 XHXM 92.5 Puebla, "estereo rey" 985
1654 XHVT 101.3 ?? MX SS, \$, L, calls +
stereo sol
1656 XHME 101.1 Campeche, Camp., \$, r, 1224
ID 1659 (uses same calls as 89.5 Puerto
Vallarta, Jal)
1704 XHOP 96.5 Villahermosa, tent. "Formula
Melodica"
1710 TG?? 98.6 Guatamala City, 1508
Radio Mundial/R. Victoria, ment. Guatamala
often, in for over an hour
1712 XHPR 101.3 VER Veracruz, ads
1717 TGN 100.7 s.s. east--Mx or C. Amer.,
tent., SS talk
1718 XHTS 101.3 VER Veracruz, \$, r, + reggae
1722 XHNP 89.3 PUE Puebla, SS, L 985
1723 XHRS 90.1 PUE Puebla, calls
1731 XHEA 104.1 OR/XHVA MX// calls + "JUS-FM"
R. Formula
1810 XHRC 91.7 PUE Puebla, ads 985
1831 unID 98.5 s.s. east, "R. Capital"
1841 XELA 98.5 DF Mexico City, c
1842 XHMM 100.1 " " r
1842 XHSON 100.9 " " r
1844 XHPO 92.1 "
1845 XHPS 93.3 VER Veracruz 1032
1853 unID 92.1 Mexico ment. "en Cordoba"
1856 XHRS 90.1 PUE Puebla, "R. Lobo" 985
1859 KUSU 91.5 UT Logan, ID 752
1909 unID 99.3 n.n. west "V-99"
1911 KZBQ 93.7 ID Pocatello, r, calls 833
1912 KIZN 93.1 ID New Plymouth, k 1035
1913 KNAQ 92.1 ID Rupert, ads, "Q-92"
1914 KQFM 99.3 OR Hermiston, ads, calls
1916 KHQ 98.1 WA Spokane, tent, r
1923 KMCK 106.9 ID Lewiston 1148
1929 KFAE 89.1 WA Richland, ID
tr
1934 KIQX 101.3 CO Durango, "KIX FM", promo
for San Juan Nat. Forest 383
Es
1938 KKRZ 100.3 OR Portland, 2-100 1319
1942 KJOT 105.1 ID Boise
1943 KXDD 104.1 WA Yakima, ads 1274
1946 KEZE 105.7 WA Spokane, ads, r 1224
1950 KHKK 106.5 WA Richland, k, calls 1225
1953 KFFM 107.3 WA Yakima, ads 1274
1957 KWHI 103.5 OR Pendleton 1175
1959 KZZK 102.7 WA Richland, ID 1225
2001 KCIV 104.5 OR The Dalles, ID 1260
2006 KCNA 105.3 WA Kennewick, ID 1215
2013 KKQT 98.3 ID Rexburg, tent
2015 KTBI 95.9 WA Ephrata, g, ID 1274

cont.

6/8 Es							
1256	1629	WGTC	92.3	IN	Bloomington, ads	1022	
	1632	WDAO	107.7	CH	Dayton, calls	1152	
wx376	1634	WWVY	104.9	IN	Columbus, ads, "tri-w-y"		
300	1637	WRZQ	107.3	IN	Greensburg, ads, calls,wx		
450	1638	WFEF	105.9	CH	Middletown, "new rock		
360	105	PFB-FM"				1139	
	1641	WCBK	102.3	IN	Martinsville,k,ads,cl1035		
985	1649	WFML	106.5	IN	Washington, "Washington's natural sound"	1066	
	1650	WRMZ	99.7	OH	Columbus, ads	1215	
	1652	KQYE	98.3	MM	Spring Grove, calls	959	
985	1659	WSFP	90.1	FL	Ft. Meyers,ID 1700	1386	
1071	1705	KXLP	93.1	MN	New Ulm, r, calls	900	
EE	1628	KSEZ	97.9	IA	S ux City, wx	747	
693	1738	WAQE	97.7	WI	Rice Lake, calls	1049	
1170	1739	KNXR	97.5	MN	Rochester, ads	945	
842	1742	WIMI	99.7	MI	Ironwood,calls	1143	
M	1121	1759	WRAF	90.9	GA	Toccoa, ID	1148
945	1800	KCCM	91.1	MN	Moorehead, ID	1004	
900	1800	WYFC	91.1	SC	Gaffney, calls	1238	
	1801	WESC	92.5	SC	Greenville, ID	1205	
	1890	WFAB	90.7	NC	Charlotte,promos	1206	
932	1811	WJGA	92.1	GA	Jackson, ads	1125	
	1815	WDYN	89.7	TN	Chattanooga, ID	1037	
	1844	WYCA	92.3	IN	Hammond,tent, g		
	1858	WCXI	92.3	MI	Detroit, ad	1260	
	1858	WUOH	91.7	MI	Ann Arbor, ID	1229	
923	1904	WLBS	102.7	MI	Mt. Clemens, calls	1274	
900	1909	CJFI	99.9	ON	Sarnia, ID	1305	
1205	1910	WLKI	100.1	IN	Angola, calls	1157	
1224	1911	WNIC	100.3	MI	Dearborn, ads		
e"	1915	WMC	104.3	MI	Detroit, calls	1260	
698	1920	CBCB	106.3	ON	Sarnia,Can.nx pgm.	1305	
1224	1921	WYEN	106.7	IL	Des Plains, calls	1040	
900	1922	WJZZ	105.9	MI	Detroit, calls	1260	
725	1924	WQRS	105.1	MI	Detroit, ads, c		
1107	1926	WGMZ	107.9	MI	Flint, wx,"FM-108"	1260	
r, r 783	1927	WWWW	106.7	MI	Detroit, k,"W-4",ads	1260	
promo	1928	WMUZ	103.5	MI	Detroit, calls		
1026	1929	WQLR	106.5	MI	Kalamazoo, ads	1148	
1107	1933	WUCZ	101.3	MI	Grand Rapids,promos	1170	
774	1934	WJXQ	106.1	MI	Jackson,r,q-106	1193	
22"	1939	WDET	101.9	MI	Detroit, calls	1260	
r	1942	WJGS	98.5	MI	Houghton Lake, calls	1260	
860	1948	WFMH	97.3	MI	N. Muskegon,Magic 118	1145	
	1951	WZOK	98.5	IL	Rockford,prev. ms	990	
ads1107	1951	WMIL	106.1	WI	Waukesha,k,calls	1058	
munido"	1953	WWRM	106.7	MI	Gaylord,Warm 107	1280	
	1955	WUGN	99.7	MI	Midland,tent.		
	2000	WLEW	102.1	MI	Bad Axe, ID		
	2007	WITL	100.7	MI	Lansing, wx, calls	1210	
1103	2014	WHNN	96.1	MI	Bay City, ads	1247	
	2015	WGRD	97.9	MI	Grand Rapids, ads		
	2020	WMRX	97.7	MI	Beaverton, promo	1238	
	2023	WWKA	92.3	FL	Orlando, promos	159	
	2027	WFMH	99.7	IA	Muscattine, ads	878	
eg.mx	2029	WNGF	96.5	WI	Milwaukee, calls	1067	
omo	2030	WDLH	100.3	IL	East Moline, ID, g	914	

6/16	Es			
1720	XHME	89.5	Puerto Vallarta	940
	XEGY	89.7	DF	960
1807	XERC	97.7	DF	
1819	XHNP	89.3	PUE Puebla, "R. Tropicilada"	
6/17	Es			
2043	KYYX	96.1	ND Williston, wx	1026
2046	unID	91.7	north, c	
2123	KGCH	93.1	MT Sidney, "CH-93", wx	995
2329	KPQX	92.5	MT Havre, "QX Country"	
6/18	Es			
0932	WMMK	92.1	FL Destin, ads	1015
0933	KMAR	95.9	LA Winnsboro, ads	689
0938	WHLQ	96.9	AL Enterprise, ads, Q97	1040
0941	WPMO	99.1	MS Pascagoula, calls	896
0942	WKYD	98.1	AL Andalusia, ads	1008
0954	WZKX	107.1	MS Gulfport, "ZKX-107"	867
0957	WOWW	107.3	FL Pensacola, "wow-107", ads	
0959	WAKH	105.7	MS McComb, ID	765
1005	WFTL	97.7	MS Tylertown, wx, calls	788
1011	WFFF	96.7	MS Columbia, ID	810
1013	WABE	97.5	AL Mobile, calls	936
1019	WNSL	100.3	MS Laurel, "south MS favorite"	835
1032	KUUL	92.1	CA Madera, SS, ads	972
1039	KQED	88.5	CA SF, lcl.pgm.	1116

7/7 tr
2200 KIWR 89.7 IA Council Bluffs, ID 365
7/14 tr
1000 KRNO 102.5 IA Des Moines, r 430
Es has been quite a disappointment since
mid-June and little time left for improve-
ment.
Those who don't have much money to invest
in good DX equipment ought to check local
pawn shops for something good. For example,
here at a local shop I was surprised to see
a Sansui SU-717 tuner, one of the best ever
made by Sansui, with an asking price of \$110.
Used tuners like this are surely great finds
if the selectivity spec. is at least 80 db.

Dx Distance

USE A HOME COMPUTER TO MEASURE YOUR DX!

John F. Combe
2485 Ivan Ct.
Orlando FL 32807

The program presented below was written to run on the Commodore 64 computer. It measures the exact distance between your DX location and any given TV station in the United States or Canada. The only input required is: (a) your own latitude and longitude, and (b) that of the desired station.

If you do not know your exact latitude and longitude, and are content with a less than accurate answer, the coordinates of your town may be available in an almanac. Determining one's own coordinates, however, is fairly simple if a detailed map is available.

Coordinates for all U.S. television stations, and many Canadian stations, are found in such publications as Television Factbook, which is available in most larger public and university libraries. Coordinates for transmitters in Mexico, the Caribbean, Central and South America are lacking; indeed, we do not even know the approximate geographical location of many stations in Cuba and elsewhere.

Although the program is written in Commodore BASIC, those of you with other computers may well be able to adapt it to your own version of BASIC. If you own a Commodore 64, but do not have the time or patience to type in the program, I would be happy to provide the program to anyone who sends me a blank, formatted diskette and \$1.00 to cover postage. Write me if you have any questions.

MAGIC DX DISTANCE FINDER

```

5 REM *** MAGIC DX DISTANCE FINDER ***
10 FOR T=1 TO 250: NEXT T: PRINT "CLEAR": FOR T=1 TO 250: NEXT
15 PRINT "19 DOWN" 18 SPACES: PRINT "MAGIC DX DISTANCE FINDER OFF"
20 FOR T=1 TO 1000: NEXT
25 PRINT "2 DOWN" 8 SPACES: (C)1983 BY JOHN F. COMBS
30 FOR T=1 TO 1500: NEXT: PRINT "CLEAR": FOR T=1 TO 500: NEXT
100 REM *** LATITUDE AND LONGITUDE DATA ***
105 PRINT "5 DOWN" 1 SPACE: ENTER YOUR LATITUDE:
110 INPUT "7 SPACES" DEGREES: "D1
115 INPUT "7 SPACES" MINUTES: "M1
120 INPUT "7 SPACES" SECONDS: "S1
125 T1=D1+((M1+(S1/60))/60)
130 PRINT "DOWN" 1 SPACE: ENTER YOUR LONGITUDE:
135 INPUT "7 SPACES" DEGREES: "D2
140 INPUT "7 SPACES" MINUTES: "M2
145 INPUT "7 SPACES" SECONDS: "S2
150 G1=D2+((M2+(S2/60))/60)
155 FOR T=1 TO 1500: NEXT: PRINT "2 DOWN" 5 SPACES: OKAY, HERE WE GO! : FOR T=1 TO 500: NEXT
160 PRINT "CLEAR": FOR T=1 TO 250: NEXT
200 INPUT "ENTER CALL LETTERS OF STATION: " CL$
205 PRINT "DOWN" 1 SPACE: ENTER STATION'S LATITUDE:
210 INPUT "7 SPACES" DEGREES: "D3
215 INPUT "7 SPACES" MINUTES: "M3
220 INPUT "7 SPACES" SECONDS: "S3
225 T2=D3+((M3+(S3/60))/60)
230 PRINT "DOWN" 1 SPACE: ENTER STATION'S LONGITUDE:
235 INPUT "7 SPACES" DEGREES: "D4
240 INPUT "7 SPACES" MINUTES: "M4
245 INPUT "7 SPACES" SECONDS: "S4
250 G2=D4+((M4+(S4/60))/60)
255 GOSUB 500
260 IF CL$="" THEN 270
265 PRINT "3 DOWN" 1 SPACE: DISTANCE TO "CL$," IS: DX, "MILES": GOTO 275
270 PRINT "3 DOWN" 1 SPACE: DISTANCE IS: DX, "MILES"
275 FOR T=1 TO 1500: NEXT
280 PRINT "DOWN" 1 SPACE: OPTIONS:
285 PRINT " (1) CALCULATE ANOTHER FOR SAME LOCATION"
290 PRINT " (2) ENTER DATA FOR NEW LOCATION"
295 PRINT " (3) QUIT PROGRAM"
300 PRINT "DOWN" 1 SPACE: CHOOSE ONE..."

```

DX DISTANCE (Continued)

```

305 GETA$: IFA$="" THEN 305
310 IFA$="1" THEN PRINT "CLEAR": GOTO 200
315 IFA$="2" THEN PRINT "CLEAR": GOTO 100
320 IFA$="3" THEN 400
325 GOTO 305
400 FOR T=1 TO 500: NEXT: PRINT "2 DOWN" 73 AND GOOD DX! : PRINT "19 DOWN": END
500 REM *** CALCULATIONS ***
505 A=ABS(90-T2): B=ABS(90-T1): C=ABS(G1-G2)
510 X=ABS((B-A)/2): Y=ABS((B+A)/2): Z=C/2
515 R=57.285779514
520 XA=(LOG((COS(X/R))))/LOG(10)
525 XB=(LOG((SIN(X/R))))/LOG(10)
530 XC=(LOG((TAN(X/R))))/LOG(10)
535 YA=(LOG((1/COS(Y/R))))/LOG(10)
540 YB=(LOG((1/SIN(Y/R))))/LOG(10)
545 ZA=(LOG((1/TAN(Z/R))))/LOG(10)
550 ZB=ZA
555 D=XA+YA+ZA
560 B=XB+YB+ZB
565 S=ATN(EXP(D*(LOG(10))))
570 T=ATN(EXP(B*(LOG(10))))
575 YC=(LOG(SIN(S)))/LOG(10)
580 ZC=(LOG(1/SIN(T)))/LOG(10)
585 ZZ=XC+YC+ZC
590 CC=2*(ATN(EXP(ZZ*(LOG(10))))) * R
595 DX=INT(((CC*60)*1.1516)+.5)
600 RETURN

```

Incidentally, the distance given is rounded off to the nearest mile. If you are a stickler for accuracy (and this may be important where records are concerned), you can have the program print out the exact distance, including all decimal places, by changing line 595 to the following:

```
595 DX=((CC*60)*1.1516)
```

If you're really ambitious, you could even build a data file of the coordinates of all stations within your potential coverage area (say 1500 miles) and tie it in to this program. Such a system could be set up where all one need do is enter the call letters, and the distance is calculated. I have tried to set up such a system, but have come to the conclusion that unless you're single, childless, and independently wealthy (i.e., no need to "punch a clock"), it is a task tantamount to reading the phone book or counting the number of "e's" in the Bible!

Worldwide TV-FM DX Association

PHOTO-NEWS

August 1984

David J. Nieman
12284 Nice Road
Akron, NY 14001
USA

The photos this month are from:
Paul Gaines (CP) - Detroit, MI
Nate Ely (NE) - Madison, WI
Dave Nieman (DN) - Akron, NY

WCDC-19 Adams, MA 505 mile
tropo seen on Sept. 9, 1982
(CP)

C.C.I. [UNIDENTIFIED DX]

Robert Grant, KD8EN
5775 Bishop
Detroit, MI 48224.
August, 1984.

TV unIDs:

Mate Ely, 1237 East Johnson St. #2, Madison, WI 53703.

1984: Wed 23 May Es ch 2 2100 CDT— end "Merv Griffin" start "CBC National/Journal"
(PTA: ENR) (most likely CKCL2-2, Kearns, OH. quite short.-RQ)
Thu 24 May Es ch 2 1529 CDT— end "Yan Can Cook" into CBC logo at 1530. (PTA:WMB-NW.)
Fri 8 Jun Es ch 2 1825 CDT— SS. (the photo you sent looks like the XEW Mexico net,
likely XEPM-2 Juarez, CH but there are many, many "dos"
net stations on 2, including XEW, Cd. Mexico, of course. -RQ)

John P. Combs, 2485 Ivan Court, Orlando, FL 32807.

1984: Tue 5 Jun Tr ch 35 0200 EDT— ID slide (a 35 in a circle w/call sign under it)
followed by a person playing a piano. (PTA:SC,VA,NY.)

Jeff Kadet, Box 20, Macomb, IL 61455.

1984: Sun 20 May Es? ch 4 2059 CDT— CBS, ad- "Travis Crawford Buick" mentioned
"Cable channel 7" during ID.
Sat 19 May Es ch 2 1830 CDT— ad for Kullberg's at 8th & Pacific phone # 7867777
also Winnipeg Jets ad. (Most likely KMD2-2 Minnedosa, MB -RQ)

Robert Grant, KD8EN, 5775 Bishop, Detroit, MI 48224, editor.

1984: Mon 25 Jun Es ch 4 2051 EDT— 0 offset, ABC Monday Night BS, tornado warning.
(PTA: ND,SD. KXLF,MT likely but opening would seem
to favor KPRY-4 in SD, listed as NBC. Have they changed
to ABC??)

FM unIDs:

Jeff Kadet, Box 20, Macomb, IL 61455.

1984: Sat 7 Jan Es 92.5 1330 CDT— FF reggae mx, MB and MS in.

6/25 Es opening brings news: New channel 5 in Lander, WY appears to be on the air.
I saw a station that wasn't 0 beat to either WENS nor WNEB (this means 0 offset)
with a local ad mentioning "Riverton and Lander" (anybody know the calls of this one??)
on 6/24 a network swap occurred: KOTA-3 RAPID CITY, SD NOW ABC. (was NBC) as well as
KOTA's ch 11 & 12 satellites. KEVN-7 in R.C.S.D. now NBC as well as satellite
KIVV-5 LEAD, SD. (were ABC) I could not think of a better way to confuse DXers than
to switch the networks of two lowband stations in the middle of Es season. Neither
R.C.S.D. station has secondary CBS affiliation anymore, Rapid City has a Xltr of KPLO-6
on UHF (I think, see photo on page 26, 2/83 VUD.)

Like last year, the Es got off to a good start but died off quickly.
(maybe next year) (or 1986?) (or in your child's lifetime??)

73 & DX (any DX, hi.)

Worldwide TV-FM DX Association

PHOTO-NEWS CONTINUED



KIDLO-3 Garden City, SD
940 mile ES seen 1-7-84
(DN)



WCLQ-61 Cleveland, OH 400 mile
tropo seen on Dec. 3, 1983 (NE)

Dave

WTFDA CLUB SUPPLIES



PLACE YOUR ORDER NOW!! PLACE YOUR ORDER NOW!! PLACE YOUR ORDER NOW!!

VHF-UHF DIGEST BACK ISSUES -- AVAILABLE JANUARY 1983 TO THE PRESENT \$1.25
A FEW AVAILABLE BEFORE JANUARY, AT \$1.00

WTFDA TV STATION GUIDE
(SECOND EDITION, 1981)

S-O-L-D O-U-T

ALL NEW

9TH EDITION
FM ATLAS

144 pages!

THE ALL NEW 9TH EDITION FM ATLAS
AND STATION DIRECTORY IS NOW ON
SALE. THIS IS THE ONE YOU'VE
BEEN WAITING FOR THE ONE EVERY-
ONE HAS TO HAVE FOR SUCCESSFUL
FM DXING. THE SINGLE MOST COM-
PLETE SOURCE OF INFORMATION ON
THE FM BROADCAST BAND. WITH
IT'S MAPS SHOWING STATION LOCA-
TIONS, A STATE BY STATE LISTING
WITH FORMATS, STEREO, COVERAGE
AREA, NETWORK AND SCA INFORMA-
TION, A LIST BY FREQUENCY WITH
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